

AUTHOR INDEX

- Aalami, Bijan and Atzori, Bruno Flexural vibrations and Timoshenko's beam theory. (AIAA J) 679
- Abbott, S. W., Smoot, L. D., and Shadow, K. Direct mixing and combustion efficiency measurements in ducted, particle-laden jets. (AIAA J) 275
- Abelhamid, A. N., Harrie, D. T., Plett, E. G., and Summerfield, M. Noise characteristics of combustion augmented jets at midsubsonic speeds. (AIAA J) 336
- Aceto, Leonard D. and Kollback, Reiner Primary zone carbon monoxide levels for gas turbines. Part I—Premixed combustion. (AIAA J) 463
- Adachi, J. (AIAA J, TN; see Tong, Pin)
- Adamczyk, John J. Passage of a swept airfoil through an oblique gust. (JA) 281
- Adams, Donald F. High-performance composite material airframe weight and cost estimating relations. (JA) 751
- Adams, J. C., Jr. and Martindale, W. R. Hypersonic lifting body boundary-layer analysis at high angles of incidence. (JSR) 721
- Adamson, T. C., Jr. (AIAA J; see Brilliant, H. M.)
- Adcock, Jerry B. (JA; see Kilgore, Robert A.)
- (A/ A, Oct.; see Polhamus, E. C.)
- Adelman, H. M. (AIAA J, TN; see Narayanaswami, R.)
- Adimurthy, V. (AIAA J; see Jain, A. C.)
- Adler, D. Mathematical model of a damped rate-of-climb indicator. (JA) 439
- Afimiwalu, K. A. and Mayne, R. W. Evaluation of optimization techniques for applications in engineering design. (JSR, SYN) 673
- Afzal, Noor and Luthra, V. K. Highly accelerated laminar flow at moderately large Reynolds number. (AIAA J) 529
- Agnone, Anthony Cross-flow effects on the boundary layer in a plane of symmetry. (JSR, EN) 542
- Agrawal, B. N. Effects of asymmetries in the rotor and flexible joint of a dual-spin spacecraft. (JSR, SYN) 611
- Agrawal, H. C. (AIAA J, TN; see Prasad, Anant)
- Ahmed, Shaheer (JSR, EN; see Kumar, Rajnish)
- Akay, H. (AIAA J, TC; see Oden, J. T.)
- Alfriend, Kyle T. Partially filled viscous ring nutation damper. (JSR) 456
- Alfriend, Kyle T. and Hubert, Carl H. Stability of a dual-spin satellite with two dampers. (JSR) 469
- Allen, Jerry M. Reply by author to P. Bradshaw and K. Unsworth. (AIAA J, TC) 1295
- Almqvist, H. and Jansson, B. Apparatus and techniques for safe, economical work in hostile environments. (JH) 125
- Alpay, S. A. (JA, EN; see Parameswaran, V.)
- Alsbaugh, D. W. (AIAA J, SYN; see Huang, S. N.)
- Amba-Rao, C. L. (JSR; see Singa-Rao, K.)
- Ambrose, J. (AIAA J; see Dowell, E. H.)
- Amiet, Roy K. Compressibility effects in unsteady thin-airfoil theory. (AIAA J, TN) 252
- Amieux, Jean Claude and Liegeois, Alain Design and ground test of a pendulum-type active nutation damper. (JSR, EN) 790
- Amieux, J. C. Reply by author to P. K. Nguyen. (JSR, TC) 607
- Anand, D. K. (JSR, EN; see Lohfeld, R. E.)
- Anderson, B. D. (PS, V.32; see Morgan, R. P.)
- Anderson, Jerry M. (AIAA J, TN; see Morgan, Joseph D., III)
- Anderson, John D., Jr. Computations of CO₂ laser radiation absorption in SF₆-air boundary layers. (AIAA J) 1527
- Effect of kinetic rate uncertainties on gasdynamic laser gain and energy prediction. (AIAA J) 1699
- Anderson, L. B., Meyer, J. W., and McLean, W. J. Turbojet exhaust reactions in stratospheric flight. (AIAA J) 56
- Anderson, Neal T. (A/ A, June; see Paparozzi, Frank A.)
- Ando, Shigenori (JA, SYN; see Mamada, Hiroshi)
- Anno, J. N. Influence of viscosity on the stability of a cylindrical jet. (AIAA J, TN) 1137
- Ansari, J. S. Instability of combustion. (AIAA J, TN) 561
- Ansari, Khayruddin Akbar Nonlinear flexural vibrations of a rotating Myklestad beam. (AIAA J, TN) 98
- Appa, Kari and Smith, G. Charles C. Finite element supersonic aerodynamics for oscillating parallel wings. (JA, SYN) 433
- Argyropoulos, G. S., Demetriades, S. T., Doss, E. C., and Oliver, D. A. Electron nonequilibrium in open-cycle MHD generators. (AIAA J) 669
- Armaly, B. F. and Lam, T. T. Reflectance from semi-infinite absorbing-scattering medium with diffuse incident radiation. (PS, V. 35) 115
- Arndt, Roger E. A., Tran, Nam C., and Barefoot, Galen Turbulence and acoustic characteristics of screen perturbed jets. (AIAA J, SYN) 261
- Arnold, Frederick (PS, V. 35; see Thompson, Samuel B.)
- Arritt, Robert D. ARIES—A controlled sounding rocket. (A/ A, Dec.) 50
- Asher, Jeffrey A. Laser velocimeter system development and testing. (PS, V. 34)
- Asher, Robert B. and Matusziewski, John P. Optimal guidance with maneuvering targets. (JSR, EN) 204
- Ashley, Holt (JA, EN; see Weisshaar, Terrence A.)
- Ashurst, William T. (JSR; see Kryvoruka, John K.)
- Asnin, Scott K. Venus orbital radar mapping in the 1980s—Mission design and analysis. (JSR, SYN) 801
- Astleford, William J. (JSR; see Holster, Jesse L.)
- Atzori, Bruno (AIAA J; see Aalami, Bijan)
- Generalization of Dunkerley's formula for finding the lowest critical velocity of rotating shafts. (JA, EN) 648
- Au, Guenther F. and Baumgarth, Siegfried F. J. Ion thruster ESKA 8 for North-South stationkeeping of synchronous satellites. (JSR) 618
- Aukstikalis, A. J. Spacecraft computers. (A/ A, July-August) 33
- Austin, Fred and Zetkov, George Simulation capability for dynamics of two-body flexible satellites. (JSR, SYN) 129
- Avidor, J. M. and Lederman, S. Density survey in the hypersonic viscous shock layer on a sharp flat plate. (AIAA J, TN) 993
- Azuma, Akira and Nakamura, Yoshiya Pitch damping of helicopter rotor with nonuniform inflow. (JA) 639
- Babcock, W. R. (AIAA J; see Brown, R. S.)
- Back, Lloyd H. and Varsi, Giulio Detonation propulsion for high pressure environments. (AIAA J) 1123
- Baer, M. R., Mitchell, C. E., and Espander, W. R. Stability of Partially lined combustors with distributed combustion. (AIAA J) 475
- Bagby, Frederick L. A unified view of the R&D economy. (A/ A, January) 32
- Baig, M. I. and Yang, T. Y. Buckling analysis of orthogonally stiffened waffle cylinders. (JSR) 832
- Bajjal, S. K. and Sriramulu, A. N. Kinetic factors in heterogeneous combustion of cross-linked polymers. (AIAA J, TN) 1413
- Bailey, David J. (JA; see Young, Maurice I.)
- Bailey, Rodney O. (A/ A, Sept.; see Gregory, Thomas J.)
- Bain, R. L., Stermole, F. J., and Golden, J. O. Liquefaction dynamics of *n*-octadecane in cylindrical coordinates. (JSR) 335
- Balser, Martin, McNary, Charles A., and Nagy, Arthur E. Acoustic backscatter radar system for tracking aircraft trailing vortices. (JA) 556
- Bannerot, R. B. and Wierum, F. A. Approximate configuration factors for a gray nonisothermal gas-filled conical enclosure. (PS, V. 35) 41
- Barber, B. C. Thrust measuring system for electrothermal thrusters. (JSR) 549
- Barefoot, Galen (AIAA J, SYN; see Arndt, Roger E. A.)
- Barker, Richard M. and Hatt, Fritz Analysis of bonded joints in vehicular structures. (AIAA J, ERR) 1168
- Barker, S. J. and Liepmann, H. W. Laser anemometer measurements of surface pressure distributions. (AIAA J, TN) 1758
- Baronti, Paolo (AIAA J, TN; see Ferri, Antonio)
- Baronti, Paolo and Miller, Gabriel Integral solution of the turbulent energy equation. (AIAA J, TN) 108
- Barr, G. (AIAA J; see Horn, W.)
- Barranger, John P. Study of a flight monitor for jet engine disk cracks using the critical length criterion of fracture mechanics. (PS, V. 34) 325
- Barrere, M., Nadaud, L., and Lhuillier, J. N. ONERA and SNPE recent work on solid propellant combustion instability. (JSR) 33
- Bartholomew, R. J. (JH; see Lavis, D. R.)
- Bartos, Joan M. (AIAA J, TN; see Gerber, Nathan)
- Baruch, Menahem (AIAA J, TN; see Durban, David)
- Basiulis, A., Eallonardo, C. M., and Kendall, B. M. Heat-pipe system for space shuttle traveling wave tube amplifier. (PS, V. 35) 431
- Bass, Robert L., III (JH; see Unruh, James F.)
- Batson, James L. and Bertin, John J. Rocket exhaust flow in tube launchers. (JSR, SYN) 739
- Batt, Richard G. Flight test base pressure results from sharp 89° cones. (AIAA J, TN) 555
- Bauer, R. C. (JSR; see Schulz, R. J.)
- Baumgarth, Siegfried F. J. (JSR; see Au, Guenther F.)
- Beach, H. Lee, Jr. Evaluation of a wedge gas-sampling probe. (AIAA J, TN) 1284
- Beans, E. William Total pressure recovery for a dump combustor. (JSR, EN) 433
- Becker, Manfred, Robben, Frank, and Cattolica, Robert Velocity distribution functions near the landing edge of a flat plate. (AIAA J) 1247
- Beckman, J. D., Hyde, J. R., and Rasool, S. I. Exploring Jupiter and its satellites with an orbiter. (A/ A, Sept.) 24
- Beckwith, Ivan E. Comments on Crocco's solution and the independence principle for compressible turbulent boundary layers. (AIAA J, TN) 245
- Comment on "Spherically-symmetric supersonic source flow: a new use for the Prandtl-Meyer function." (AIAA, TC) 1615
- Beichel, Rudi Propulsion systems for single-stage shuttles. (A/ A, Nov.) 32
- Belytschko, Ted and Hsieh, B. J. Nonlinear transient analysis of shells and solids of revolution by convected elements. (AIAA J) 1031
- Belz, R. A. (PS, V. 34; see Trolinger, J. D.)
- Benze, Daniel P. (JA; see Sorenson, Norman E.)
- Bendura, R. J. (JSR; see Moog, R. D.)
- Benek, J. A. and High, M. D. Transition prediction technique. (AIAA J, TN) 1425

- Benenson, David M. and Cenknor, August A., Jr. Local thermal equilibrium in a transient arc. (AIAA J, TN) 116
- Bennett, Robert M. (JA: see Desmarais, Robert N.)
- Bennett, S. B. and Dostis, I. Design of the INTELSAT IV transponder. (PS, V. 33) 373
- Bera, Rajendra K. Slender delta wing with conical camber. (JA, EN) 245
—Some remarks on the solution of the lifting line equation. (JA, EN) 647
—Warping of delta wings for minimum drag. (JA, EN) 777
- Bera, Rajendra K. and Ramachandra, S. M. Method of orthogonal loadings—A fresh look. (JA, EN) 650
- Bergstrom, E. R., Boley, W. E., and Raghunathan, S. Unsteadiness measurements in the flow through an oblique shock wave. (AIAA J, TN) 997
- Bergstrom, R. W., Jr. and Viskanta, R. Spherical harmonics approximation for radiative transfer in polluted atmospheres. (PS, V. 35) 23
- Berkovits, A. Hodographic prediction of cyclic creep behavior. (JA) 10
- Berman, Howard and Gran, Richard Design principles for digital autopilot synthesis. (JA) 414
- Bernstein, Shmuel (JA, EN: see Iversen, James D.)
- Bert, C. W. (AIAA J: see Chang, S.)
—(JA: see Reese, Charles D.)
—(JSR: see Womack, William C.)
- Bert, Charles W. and Francis, Philip H. Composite material mechanics: Structural mechanics. (AIAA J, SA) 1173
- Bertels, A. W. M. (AIAA J, TN: see Hsu, T. R.)
- Bertin, John J. (JSR, SYN: see Batson, James L.)
- Bertin, John J., Faria, H. Tom, Goodrich, Winston D., and Martindale, W. R. Effect of nose geometry on the aerothermodynamic environment of shuttle entry configurations. (JSR) 275
- Besson, Jean and Boillot, Jean Aircraft localization with a time-frequency system. (JA, SYN) 193
- Bevilacqua, Paul M. Evaluation of hypermixing for thrust augmenting ejectors. (JA) 348
- Biblarz, Oscar and Fuhs, Allen E. Laser cavity density changes with kinetics of energy release. (AIAA J) 1083
- Bicknell, J. (JA: see Parker, A. G.)
- Biggs, John R. and Downhower, Walter J. Mariner Venus/ Mercury '73: A strategy of cost control. (A/ A, June) 48
- Bhat, B. Rama, Rao, B. V. A., and Wagner, Hans Response of structures to random acoustic excitation—An experimental study. (JSR, SYN) 213
- Bhatia, Kumar G. An automated method for determining the flutter velocity and the matched point. (JA) 21
- Billig, Frederick S. (AIAA J, TC: see Waltrup, Paul J.)
—(PS, V. 34: see Orth, R. C.)
- Billig, L. O. Automatic detection and suppression of inlet buzz. (PS, V. 34) 453
- Birch, Stanley F. (JSR, EN: see Rudy, David H.)
- Bischoff, David, Duffy, Robert, and Kaufman, Howard Automatic control of adverse yaw in the landing environment using optimal control theory. (JA, SYN) 499
- Blachier, Bruno, Feve, Philippe, and Koenig, Walter A. An 11-13 GHz satellite communications repeater. (PS, V. 32) 123
- Blahnik, James E. and Davis, Donald R. Advanced applications of the space shuttle. (JSR, EN) 117
- Blevis, B. C. and Card, M. L. The implications of satellite technology for television broadcasting in Canada. (PS, V. 32) 281
- Bloom, A. M. and Jen, H. Roll-up of aircraft trailing vortices using artificial viscosity. (JA, EN) 714
- Bohon, Herman L. (JA: see Musgrove, Max D.)
- Boillot, Jean (JA, SYN: see Besson, Jean)
- Boland, P., Samin, J.-C., and Willems, P. Y. Stability analysis of interconnected deformable bodies in a topological tree. (AIAA J) 1025
- Boley, W. E. (AIAA J, TN: see Bergstrom, E. R.)
- Boothe, E. M. and Ledder, H. J. Direct side force control for STOL crosswind landings. (JA) 631
- Born, G. H. (JSR: see Duxbury, T. C.)
- Bornstein, J. (PS, V. 34: see Lederman, S.)
- Boscola, Edward J. In-flight oxygen generation for aircraft breathing systems. (JA) 444
- Boyle, Robert E., Jr. and Viets, Hermann Eddy viscosity for variable density following streams. (JA, SYN) 721
- Bracco, Frediano V. Applications of steady-state spray equations to combustion modeling. (AIAA J) 1534
- Bradley, R. G. and Wray, W. O. A conceptual study of leading-edge-vortex enhancement by blowing. (JA) 33
- Bradshaw, George B. and Postula, Frank D. Beginning of mission flight data on the transit RTG. (JSR, SYN) 675
- Bradshaw, P. and Unsworth, K. Comment on "Evaluation of Preston tube calibration equations in supersonic flow." (AIAA J, TC) 1293
- Braha, J., Salomon, M., Seginer, A., and Rom, J. Considerations for the design of a second generation induction driven transonic wind tunnel. (JA) 729
- Brainerd, Carl H. (JA: see Kohlman, David L.)
- Bramlette, T. Taz Slot heating associated with roll control fins. (JSR, EN) 797
—Simple technique for predicting Type III and IV shock interference. (AIAA J, TN) 1151
- Brashears, M. R. and Hallock, James N. Aircraft wake vortex transport model. (JA) 265
- Bratanow, Theodore and Ecer, Akin Sensitivity of rotor blade vibration characteristics to torsional oscillations. (JA) 375
—and Ecer, Akin On the applications of the finite element method in unsteady aerodynamics. (AIAA J) 503
—and Ecer, Akin Analysis of three-dimensional unsteady viscous flow around oscillating wings. (AIAA J) 1577
- Brederlow, G. and Witte, K. J. Effective electrical conductivity and related properties of a nonequilibrium high pressure MHD plasma. (AIAA J) 83
- Brederlow, G., Witte, K. J., and Zinko, H. Performance of a Faraday rare gas alkali MHD generator. (AIAA J) 481
- Brennan, P. J. (PS, V. 35: see Kirkpatrick, J. P.)
- Brent, John A. (PS, V. 34: see Johnson, Bruce V.)
- Breslin, John P. Notes from abroad. (JH, E) 1
—Dynamic forces exerted by oscillating cables. (JH) 19
- Brewer, G. Daniel The case for hydrogen-fueled transport aircraft. (A/ A, May) 40
- Brilliant, H. M. and Adamson, T. C., Jr. Shock wave boundary-layer interactions in laminar transonic flow. (AIAA J) 323
- Brink, Donald F. (JSR, EN: see Greene, George C.)
- Briot, M. (JSR: see Costes, A.)
- Broadwell, J. E. (AIAA J, SYN: see Shackleford, W. L.)
- Brockman, Philip and Seals, R. K., Jr. Analysis of laser measurement of high-altitude aircraft emissions. (AIAA J) 651
- Brode, H. L. (AIAA J: see Glass, I. I.)
- Brooks, David R. Mission strategy for combined comet-asteroid flybys. (JSR, EN) 115
- Brown, Clarence A., Jr. (JSR: see Campbell, James F.)
- Brown, Glen J. (A/ A, February: see Seemann, Gerald R.)
- Brown, John V. (PS, V. 33: see Hanson, Charles W.)
- Brown, R. S., Erickson, J. E., and Babcock, W. R. Combustion response function measurements by the rotating valve method. (AIAA J) 1502
- Brownstein, Barry J. (JA: see Ellis, Stanley H.)
- Bruckner, Adam P. and Jahn, Robert G. Exhaust plume structure in a quasi-steady MPD accelerator. (AIAA J) 1198
- Brunelle, E. J. and Robertson, S. R. Initially stressed Mindlin plates. (AIAA J) 1036
- Brussat, T. R. (JA: see Ekvall, J. C.)
- Bryan, Curtis V. and Pennington, James H. RPV potential for naval applications. (A/ A, Oct.) 58
- Buche, Donald R. and Lesco, Daniel J. Pyrometer for measurement of surface temperature distribution on a rotating turbine blade. (PS, V. 34) 347
- Bulmer, Bruce M. Radial base heat-transfer gradients in turbulent flow. (JSR, EN) 798
- Burbank, R. A. (AIAA J, TN: see Kirchhoff, R. H.)
- Burcham, F. W., Jr. (PS, V. 34: see Smith, R. H.)
- Burgess, Ray W., Jr. (PS, V. 34: see Couch, Robert P.)
- Burnham, David C. and Sullivan, Thomas E. Influence of flaps and engines on aircraft wake vortices. (JA, EN) 591
- Burns, J. J. (JSR: see Vorreiter, J. W.)
- Burton, T. D. Approximate impact dispersion methods for symmetric entry vehicles. (JSR) 777
- Caine, P. (AIAA J: see Walkden, F.)
- Cameron, James M. (AIAA J, TN: see Waltrup, Paul J.)
- Campbell, David H. F-12 series aircraft propulsion system performance and development. (JA) 670
- Campbell, David R. Separation over a flat plate-wedge configuration at oceanic Reynolds numbers. (JH, SYN) 3
- Campbell, D. R. and Quinn, B. Test results of a VTOL propulsion concept utilizing a turbofan powered augmentor. (JA) 467
- Campbell, James F. and Brown, Clarence A., Jr. Experimental wake flow properties of a Viking '75 entry vehicle. (JSR) 11
- Card, M. L. (PS, V. 32: see Blevis, B. C.)
- Cardea, G. C. and Torvik, P. J. Cavity growth and collapse phase of hydraulic ram. (JA, EN) 252

- Cardou, Alain Necessary condition for piecewise uniform optimum design under frequency constraint. (AIAA J, TN) 1415
- Carey, Lee and Ellis, Russell Extendible exit cone development for the C4 third-stage motor. (JSR) 624
- Carleton, C. H. (JSR; see Francis, E. C.)
- Carlson, Leland A. Engineering approximations for radiating nonequilibrium shock layers. (AIAA J) 832
- Inverse transonic flow calculations using experimental pressure distributions. (AIAA J, TN) 571
- Carnegis, I. A. Engine sensory requirements for energy management. (PS, V. 34) 419
- Carney, John F., III (AIAA J, SYN; see Stuart, Richard J.)
- Carpenter, Robert T. (JSR, SYN; see Frey, Elmer J.)
- Carroll, John T. Dynamic flow studies by application of pressure and velocity sensors on axial flow fan blades. (PS, V. 34) 115
- Carruthers, George R. Operation Kohoutek preliminary results. (A/ A, Oct.) 42
- Carta, F. O. (AIAA J; see Commerford, G. L.)
- Carter, L. (AIAA J; see Horn, W.)
- Carter, Richard P. (AIAA J, TN; see Murphree, David L.)
- Cary, Aubrey M., Jr. (JSR, EN; see Hefner, Jerry N.)
- Casseday, E. D. (JSR; see Vicario, A. A., Jr.)
- Cattolica, Robert (AIAA J; see Becker, Manfred)
- Caveny, L. H. (AIAA J; see Kubota, N.)
- Cavin, R. K., III (AIAA J, TC; see Hymas, C. E.)
- Cebeci, Tuncer Calculation of three-dimensional boundary layers I. Swept infinite cylinders and small cross flow. (AIAA J) 779
- Attachment-line flow on an infinite swept wing. (AIAA J, TN) 242
- Cebeci, Tuncer and Witherspoon, G. F. Theoretical suction and pressure distribution bounds for flow separation in retarded flow. (JA, EN) 61
- Cenkner, August A., Jr. (AIAA J, TN) see Benenson, David M.)
- Cerini, D. J. NaK-nitrogen liquid metal MHD converter tests at 30 kw. (AIAA J) 78
- Cezairliyan, Ared A high-speed (subsecond) system for accurate thermophysical measurements at high temperatures. (PS, V. 35) 205
- Chadwick, William R. External-store loads using nonplanar lifting surface theory. (JA) 181
- Chambers, H. F., Jr. (PS, V. 34; see Matthews, B. J.)
- Chakrabarti, A. K. (JSR, EN; see Durgapal, U. C.)
- Note on boundary layer in a dusty gas. (AIAA J, TN) 1136
- Chan, S. K. (AIAA J; see Glass, I. I.)
- Stretch time of scribed metal diaphragms. (AIAA J, TN) 1149
- Chan, Y. Y. Pressure sources for a wave model of jet noise. (AIAA J, TN) 241
- Chang, I-Shih and Chow, W. L. Mach disk from underexpanded axisymmetric nozzle flow. (AIAA J) 1079
- Chang, S. and Bert, C. W. Analysis of longitudinal thickness-shear stiffness of a monolayer filamentary composite. (AIAA J) 1358
- Channel, L. E. (JA; see Heppie, R. R.)
- Chapter, John J. and Johnsen, Gary W. Thermoelectric device application to spacecraft thermal control. (JSR) 159
- Chasteau, V. A. L. (AIAA J, TN; see Erens, P. J.)
- Chaturvedi, B. K. (AIAA J; see Rastogi, R. P.)
- Chazen, M. L. and Sanscrainte, W. Space shuttle bipropellant RCS engine. (JSR) 685
- Chen, C. H. S. Finite twisting and bending of thin orthotropic strip of lenticular section. (AIAA J, TN) 247
- Chen, C. H. S. and Tabaddor, F. Effective moduli of layered composites. (JSR, EN) 262
- Chetrit, M. (AIAA J, TN; see Kirszenblat, A.)
- Chien, Kuei-Yuan Hypersonic, turbulent skin-friction and heat-transfer measurements on a sharp cone. (AIAA J) 1522
- Childs, Dara W. and Hardison, Therman L. A movable-mass attitude stabilization system for cable-connected artificial-g space stations. (JSR) 165
- Childs, Morris E. (JA; see Sun, Chen-Chih)
- Chmielewski, G. E. Boundary-layer considerations in the design of aerodynamic contractions. (JA) 435
- Choate, Raoul (JSR, SYN; see Jaffe, Leonard D.)
- Chou, P. C. (AIAA J; see Tsou, F. K.)
- Chou, Y. S. Axisymmetric cavity flows past slender bodies of revolution. (JH) 13
- Chow, W. L. (AIAA J; see Chang, I-Shih)
- Christie, Fred A. and DeVriendt, Andre B. Diffraction effects encountered in the measurement of bidirectional reflectance from square pyramids. (PS, V. 35) 167
- Chu, Shih-Chi A numerical thermoelastoplastic solution of a thick-walled tube. (AIAA J) 176
- Chu, Sing and Widnall, Sheila E. Prediction of unsteady airloads for oblique blade-gust interaction in compressible flow. (AIAA J) 1228
- and Widnall, Sheila E. Lifting-surface theory for a semi-infinite wing in oblique gust. (AIAA J) 1672
- Chung, P. M., Talbot, L., and Touryan, K. J. Electric probes in stationary and flowing plasmas: Part 1. Collisionless and transitional probes. (AIAA J, SA) 133
- Electric probes in stationary and flowing plasmas: Part 2. Continuum probes. (AIAA J, SA) 144
- Cicerone, R. J. (AIAA J, TN; see Stolarski, R. S.)
- Ciffone, D. L. Correlation for estimating vortex rotational velocity downstream dependence. (JA, EN) 716
- (JA, EN; see Orloff, K. L.)
- Ciffone, D. L. and Orloff, K. L. Axial flow measurements in trailing vortices. (AIAA J, TN) 1154
- Clare, Thomas A. (AIAA J; see Cohen, Charles J.)
- Clark, Alan F. and Hust, Jerome G. A review of the compatibility of structural materials with oxygen. (AIAA J, SA) 441
- Clark, K. J., Nardo, C. T., Jaffe, N. A., and Covington, M. A. Cooling by discrete and porous injection into a turbulent, supersonic boundary layer. (AIAA J) 1679
- Clark, R. N. and Fosth, D. C. Analysis and test of a precision pulse-rebalance gyroscope. (JSR, EN) 264
- Clark, S. K., Dodge, R. N., and Nybakken, G. H. Dynamic properties of aircraft tires. (JA) 166
- Clarkson, B. L. British contribution to structural response to noise. (JA) 697
- Cliff, E. M. (AIAA J, SYN; see Vincent, T. L.)
- Cline, Michael C. Computation of steady nozzle flow by a time-dependent method. (AIAA J, SYN) 419
- Cloupeau, Michel (AIAA J; see Lengrand, Jean-Claude)
- Coates, R. L. (JSR, EN; see Horton, M. D.)
- Cochran, John E., Jr. Concerning lateral dynamics of flight on a great circle. (AIAA J, TN) 557
- Coe, Paul L., Jr. A vortex entrainment model applied to slender delta wings. (AIAA J, TN) 110
- Coe, Paul L., Jr. and Kulla, D. Effect of upper-surface blowing on static longitudinal stability of a swept wing. (JA) 537
- Cohen, Charles J., Clare, Thomas A., and Stevens, Frank L. Analysis of the nonlinear rolling motion of finned missiles. (AIAA J) 303
- Cohen, Gerald A. Comment on "buckling in segmented shells of revolution subjected to symmetric and antisymmetric loads." (AIAA J, TC) 1775
- Cohen, Leonard S. (JA; see Couch, Harold T.)
- Cohen, M. J. and Portnoy, H. Irrotational subsonic flow of an ideal gas in two-dimensional ducts—Optimal ducts and ducts with plane sonic exits. (AIAA J) 608
- Cohen, N. S., Fleming, R. W., and Derr, R. L. Role of binders in solid propellant combustion. (AIAA J) 212
- Cohen, Victor D. and Savet, Paul H. Attitude dynamics of an orbiting electromagnet. (JSR, EN) 252
- Colby, Starr J., Franklin, Charles E., and Prins, Dougal W. S. Command and control challenge for RPVs. (A/ A, Sept.) 64
- Cole, John E., III Noise characteristics of a turbulent crosswind jet. (AIAA J) 198
- Coleman, G. T. and Stollery, J. L. Incipient separation of axially symmetric hypersonic turbulent boundary layers. (AIAA J, TN) 119
- Coleman, Hugh W. and Lemmon, E. Clark Prediction of turbulent heat transfer and pressure on swept leading edges. (JSR) 376
- Collette, Rene The European communication satellite program. (PS, V. 32) 213
- Collier, Robert P. and Scott, David S. Simple spectroscopic technique for the arc region of plasma accelerators. (AIAA J, TN) 103
- Collins, D. J. (AIAA J; see Kosakoski, R. A.)
- Collins, Donald J. Laminar viscous-inviscid interactions at transonic speeds. (AIAA J, TN) 1146
- Collins, Donald J. and Krupp, James A. Experimental and theoretical investigations in two-dimensional transonic flow. (AIAA J) 771
- Collins, Jon D., Hart, Gary C., Hasselman, T. K., and Kennedy, Bruce Statistical identification of structures. (AIAA J) 185
- Collins, T. P. (JA; see Kutschenreuter, P. H., Jr.)
- Colunga, D. (AIAA J, TC; see Hymas, C. E.)
- Colwell, G. T. (AIAA J; see Williams, C. L.)
- Commerford, G. L. and Carta, F. O. Unsteady aerodynamic response of a two-dimensional airfoil at high reduced frequency. (AIAA J) 43
- Connell, G. M. and Gray, A. H. Frequency-dependent wave damping in the time domain. (JH, EN) 167
- Cook, C. W. (JA; see Heppie, R. R.)
- Cook, Robert D. Comment on "Effect of higher order terms in certain nonlinear finite element models." (AIAA J, TC) 1290
- Cook, William Sidney Statistical models for Jupiter's troposphere and the

- NH₃-H₂O cloud systems. (JSR) 512
- Cooley, D. E. (JA; see Redd, L. T.)
- Cooper, A. A. G. Effect of stress on the directions of stiffness extrema. (AIAA J, TN) 1609
- Cooper, G. L. and Schmars, W. T. Selected applications of a biaxial tiltmeter in the ground motion environment. (JSR) 530
- Cooper, James R. and Hankey, Wilbur L., Jr. Flowfield measurements in an asymmetric axial corner at M = 12.5. (AIAA J) 1353
- Cooper, Larry and Putz, Kurt E. Generalized flow in gaps and slots including the effects of ablation. (JSR) 287
- Costes, A., Landrault, C., and Briot, M. Power conditioning and control unit for the French cesium contact ion thruster. (JSR) 759
- Cothran, C. A. (AIAA J; see Schnurr, N. M.)
- Couch, Harold T. and Cohen, Leonard S. Attenuation of instabilities in propulsion system combustors. (JA) 571
- Couch, Robert P., Rossbach, Dennis R., and Burgess, Ray W., Jr. Sensing incipient engine failure with electrostatic probes. (PS, V. 34) 515
- Covington, M. A. (AIAA J; see Clark, K. J.)
- Cowley, John R., Jr. (JSR; see Dyer, John W.)
- Craig, R. R., Jr. and Su, Y.-W. T. On multiple-shaker resonance testing. (AIAA J) 924
- Crawford, Davis H. Reply by author to K. M. Forster. (AIAA J, TC) 1168
- Creager, Matthew (JA; see Ekvall, J. C.)
- Crimi, Peter Analysis of helicopter rotor blade stall flutter. (JA) 407
- Crowe, C. T. (JSR, EN; see Swanson, D. E.)
- Cuccia, C. Louis and Lee, Wilfred E. PSK and QPSK modulation and demodulation in digital satellite-to-satellite and satellite-to-ground links. (PS, V. 33) 479
- Cullian, Charles A. (A/ A, February; see Seemann, Gerald R.)
- Cummings, Richard D. Thermal control of the large space telescope. (PS, V. 35) 489
- Cunningham, Atlee M., Jr. Oscillatory supersonic kernel function method for interfering surfaces. (JA) 664
- Oscillatory supersonic kernel function method for isolated wings. (JA) 609
- Cunningham, Edward P. Probability of crashing for a terrain-following missile. (JSR, EN) 257
- Guidance of a bank-to-turn missile with altitude control correction requirements. (JSR, EN) 340
- Cunnington, G. R. (PS, V. 35; see Tien, C. L.)
- Curwen, K. R. Turbine blade pyrometer system in the control of the concorde engine. (PS, V. 34) 399
- Cutchins, Malcolm A. (AIAA J; see Orlin, Peter A.)
- DaDeppo, Donald A. and Schmidt, Robert Stability of two-hinged circular arches with independent loading parameters. (AIAA J, TN) 385
- Daily, J. W., Raeder, J., and Zankl, G. Effect of finite chemical reaction rates on heat transfer to the walls of combustion-driven supersonic MHD generator channels. (AIAA J, TN) 403
- D'Amario, Louis A. and Edelbaum, Theodore N. Minimum impulse three-body trajectories. (AIAA J, SA) 455
- Danberg, James E. (AIAA J, TN; see Kayser, Lyle D.)
- Danberg, James E. and Fansler, Kevin S. Additional two-dimensional wake and jet-like flows. (AIAA J, TN) 1432
- Daniel, B. R. (JSR; see Janardan, B. A.)
- Daniel, I. M. (AIAA J; see Rowlands, R. E.)
- Dat, Jacques, Fabre, Jean, and Sanjurjo, Liber Simulation of the speed control for gas turbines using vibrating reed regulators. (JA) 624
- Daughetee, C. C. Drop testing naval aircraft and the VSD landing gear dynamic test facility. (JA) 758
- David, Thomas S. and Srinivasan, A. V. Flutter of coaxial cylindrical shells in an incompressible axisymmetric flow. (AIAA J) 1631
- Davies, M. S. (JSR, EN; see Pande, K. C.)
- Davis, Donald R. (JSR, EN; see Blahnik, James E.)
- Davis, Rodman Interactive-TV networking: A Modest proposal for using domestic communication satellites. (A/ A, April) 62
- Davis, R. T. (AIAA J; see Ghia, U.)
- (AIAA J; see Ghia, K. N.)
- (AIAA J, ERR; see Ghia, K. N.)
- Davison, E. H. (PS, V. 32; see Franklin, C. A.)
- Dayman, Bain, Jr. and Fiore, Anthony W. Ground testing and simulation—An overview: Part II: Aerodynamic testing. (A/ A, June) 56
- DeAtkine, David D. Mission planning aspects of Skylab Earth resources experiments. (JSR, EN) 266
- DeBra, D. B. (JSR; see Lyons, M. G.)
- DeBrock, S. C. and Rudey, C. J. Agena primary and integrated secondary propulsion systems. (JSR) 769
- Deepak, Desh (AIAA J, TN; see Rastogi, R. P.)
- Demetriades, S. T. (AIAA J; see Argyropoulos, G. S.)
- Demirjian, A. M. (PS, V. 34; see Louis, J. F.)
- DeMontivault, J. L. (PS, V. 32; see Hiergeist, F.)
- Denman, E. D. and Nilson, Paul, Jr. Comment on "Comparison of linear and Riccati equations used to solve optimal control problems." (AIAA J, TC) 575
- Der, Joe, Jr. and Stauffer, John K. On the inverse calculation of the mass flow parameter. (JA, EN) 121
- Derr, R. L. (AIAA J; see Cohen, N. S.)
- DeSantis, M. J. (AIAA J; see Galowin, L. S.)
- Desmarais, Robert N. and Bennett, Robert M. An automated procedure for computing flutter eigenvalues. (JA) 75
- de Virgilio, Miguel A., Wells, Gerald R., and Schiring, Earl E. Optimal guidance for aerodynamically controlled re-entry vehicles. (AIAA J) 1331
- DeVriendt, Andre B. (PS, V. 35; see Christie, Fred)
- Dewan, E. M. (AIAA J; see Rosenberg, N. W.)
- Dhameja, R. K., Saradhy, Y. P., and Jain, V. K. Influence of lithium fluoride on the burning rate of AP-polyester propellant. (AIAA J, TN) 874
- Dhoopar, B. L. (AIAA J, TC; see Vendhan, C. P.)
- Di Capua, Marco S. and Kurtz, Helmut L. Electrolytic capacitor power source design for quasi-steady magnetoplasmadynamic arcs. (JSR) 554
- Dillow, C. F. (PS, V. 35; see Schmitt, R. J.)
- Dodge, R. N. (JA; see Clark, S. K.)
- Dokmeci, M. C. (AIAA J, TN; see Gulati, S. T.)
- Dominguez, P. J. and Kosson, R. L. Development of a high capacity cryogenic heat pipe. (PS, V. 35) 395
- Donaldson, Coleman duP., Snedeker, Richard S., and Sullivan, Roger J. Calculation of aircraft wake velocity profiles and comparison with experimental measurements. (JA) 547
- (AIAA J; see Lewellen, W. S.)
- Dong, W. N. and Schlack, A. L., Jr. Stability of a spinning satellite with flexible antennas. (AIAA J, TN) 1737
- Dorsch, Robert G. (JA, SYN; see Reshotko, Meyer)
- Doss, E. D. (AIAA J; see Argyropoulos, G. S.)
- Doss, E. D., Dwyer, H. A., and Hoffman, M. A. Influence of segmentation and ambipolar diffusion on MHD nonequilibrium boundary layers. (AIAA J) 155
- Dostis, I. (PS, V. 33; see Bennett, S. B.)
- Dougherty, James E. Leadership. (JA, E) 1
- Dowell, E. H. (AIAA J; see Vaicaitis, R.)
- Dowell, E. H., Srinivasan, A. V., McLean, J. D., and Ambrose, J. Aeroelastic stability of cylindrical shells subjected to a rotating flow. (AIAA J) 1644
- Downhower, Walter J. (A/ A, June; see Biggs, John R.)
- Driftmyer, Richard T. Thick, two-dimensional, turbulent boundary layers separated by steps and slot jet. (AIAA J) 21
- Duck, Kenneth I. (PS, V. 33; see Isley, William C.)
- Dudzinski, T. J. (PS, V. 34; see Krause, L. N.)
- Duffy, Robert (JA, SYN; see Bischoff, David)
- Duiven, Edward M. Suboptimal linear filtering. (JSR, EN) 196
- Dumas, L. N. Temperature control of the Mariner-class spacecraft: A seven-mission summary. (S, V. 35) 531
- Dunavant, James C. and Throckmorton, David A. Aerodynamic heat transfer to RSI tile surfaces and gap intersections. (JSR, EN) 437
- Duncan, J. W., Hamada, S. J., and Wong, W. C. Polarization isolation characteristics of a dual-beam reflector antenna. (PS, V. 33) 331
- Duncan, T. C. (AIAA J; see Salzman, P. K.)
- Dunlap, R., Willoughby, P. G., and Hermens, R. W. Flowfield in the combustion chamber of a solid propellant rocket motor. (AIAA J, TN) 1440
- Dunn, Michael G. (AIAA J, TC; see Kang, Sang-Wook)
- Durban, David and Baruch, Menahem Floating piecewise linear approximation of a nonlinear constitutive equation. (AIAA J, TN) 868
- Durban, D. and Libai, A. Buckling of short cylindrical shells under axial compression. (AIAA J) 909
- Durgapal, U. C. and Chakrabarti, A. K. Regression rate studies of aniline formaldehyde—red fuming nitric acid hybrid system. (JSR, EN) 447
- Durgapal, U. C. and Venugopal, V. K. Hypergolic ignition of rocket propellants with nitric acid containing dissolved nitrogen tetroxide. (AIAA J, TN) 1611
- Durvasula, S. (AIAA J, TN; see Prabhu, M. S. S.)
- Duxbury, T. C., Born, G. H., and Jerath, N. Viewing Phobos and Deimos for navigating Mariner 9. (JSR) 215
- Dwyer, H. A. (AIAA J; see Doss, E. C.)
- Dyer, John W., Nunamaker, Robert R., Cowley, John R., Jr., and Jackson, Robert W. Pioneer Venus mission plan for atmospheric probes and an orbiter. (JSR) 710
- Dylewski, T. J. Reply by author to R. G. Easterling. (AIAA J, TC) 734
- Eades, J. B., Jr. Analytical solution for extensible tethers. (JSR, EN) 254

- Fallonardo, C. M. (PS, V. 35; see Basiulis, A.)
- Easterling, Robert G. Comment on "Criteria for selecting curves for fitting to data." (AIAA J, TC) 733
- Eatoock, H. C., Plucinsky, J. C., and Saintsbury, J. A. Designing small gas turbine engines for low noise and clean exhaust. (JA) 616
- Eberle, William R. Reduction of TACV power requirements by multiple-stage air cushions. (JA) 154
- Ecer, Akin (AIAA J; see Bratanow, Theodore)
- (JA; see Bratanow, Theodore)
- Eckerman, Jerome A NASA program to characterize propagation and interference for space applications. (PS, V. 32) 327
- Eckhardt, G., Haberle, H., Reidel, B., and Rupp, H. Results of German TDMA experiments. (PS, V. 33) 431
- Edelbaum, Theodore N. (AIAA J, SA; see D'Amario, Louis A.)
- Edelstein, F. (PS, V. 35; see Harwell, W.)
- Edgar, J. M. Systems analysis of Titan family for orbiting multiple communication satellites. (PS, V. 32) 405
- Edquist, C. T. Correlation of radiative heating calculations for Venus entry. (JSR, EN) 440
- Edwards, Terry L. and Kaplan, Marshall H. Automatic spacecraft detumbling by internal mass motion. (AIAA J) 496
- Eggers, J. M. (AIAA J, SYN; see Rogers, R. C.)
- Eggers, Philip E. and Ridihalgh, John L. Cost-effective radioisotope thermoelectric generator designs involving Cm-244 and Pu-238 heat sources. (JSR) 704
- Ehhalt, D. H. and Heidt, L. E. Vertical profiles of molecular H₂ and CH₄ in the stratosphere. (AIAA J) 822
- Eickhoff, H. E. A note on interacting boundary layers. (AIAA J, TN) 392
- Ekvall, J. C., Brussat, T. R., Liu, A. F., and Creager, Matthew Preliminary design of aircraft structures to meet structural integrity requirements. (JA) 136
- Elishakoff, I. B. Vibration analysis of clamped square orthotropic plate. (AIAA J) 921
- Elleman, Daniel D. (A/ A, July-August, see Wang, Taylor G.)
- Elliott, Jarrell R. (JA, EN; see Tiroshi, Igal)
- Ellis, Russell (JSR; see Carey, Lee)
- Ellis, Stanley H. and Brownstein, Barry J. Inlet distortion evaluation from limited high-response instrumentation. (JA) 112
- Elrod, Harold G., Jr. (AIAA J; see Kao, Tsai-tse)
- (AIAA J; see Sood, Des R.)
- Elsbernd, Arnold A. and Hoffman, Joe D. Maximum thrust nozzles for gas particle flows. (AIAA J) 283
- Elzweig, Sheldon (AIAA J, TN; see Ferri, Antonio)
- Emory, M. Lawrence (AIAA J, TN) see Hillard, Mervin E., Jr.)
- Engel, Carl D. and Farmer, Richard C. Radiation-gas dynamic shock layer coupling. (AIAA J, TN) 1144
- Engersbach, N. H. (AIAA J; see Gruver, W. A.)
- Englund, D. R., Jr. (PS, V. 34; see Nieberding, W. C.)
- Erens, P. J. and Chasteau, V. A. L. Laminar boundary-layer response to freestream disturbances. (AIAA J, TN) 93
- Erickson, J. E. (AIAA J; see Brown, R. S.)
- Erickson, Lars E. Transition effects on slender vehicle stability and trim characteristics. (JSR) 3
- Transition effects on slender vehicle stability and trim characteristics. (JSR, ERR) 448
- Correlation of attitude effects on a slender vehicle transition. (AIAA J) 523
- Blowing simulation of asymmetric transition effects on slender ablating vehicles. (JSR, EN) 58
- Ericsson, L. E., Guenther, R. A., Stake, W. R., and Olmsted, G. S. Combined effects of nose bluntness and cone angle on unsteady aerodynamics. (AIAA J, TN) 729
- Escher, William J. D. Future availability of liquid hydrogen. (A/ A, May) 55
- Eslami, M. R. (AIAA J; see Sabbaghian, M.)
- Expander, W. R. (AIAA J; see Baer, M. R.)
- Evans, J. S. (AIAA J; see Schexnayder, C. J.)
- Evans, John S., Schexnayder, Charles J., Jr., and Grose, William L. Effects of nonequilibrium ablation chemistry on Viking radio blackout. (JSR) 84
- Schexnayder, Charles J., Jr. and Grose, William L. Reply by authors to D. E. Jensen (JSR, TC) 736
- Evvuoma, S. M., Walker, J. S., and Robertson, J. M. Higher order boundary layer for viscous flow past sharp wedges. (AIAA J, TN) 1001
- Fabre, Jean (JA; see Dat, Jacques)
- Fairbanks, D. R. (PS, V. 35; see Vachon, W. A.)
- Fallin, E. H., III Time requirements for multiple intersatellite transfers. (JSR, EN) 445
- Fano, Ole Optimum propeller in viscous flow. (JA, EN) 241
- Fansler, Kevin S. (AIAA J, TN; see Danberg, James E.)
- Faria, H. Tom (JSR; see Bertin, John J.)
- Farmer, Richard C. (AIAA J, TN; see Engel, Carl D.)
- Farr, A. P. and Schumacher, G. A. System for evaluation of F-15 inlet dynamic distortion. (PS, V. 34) 59
- Farrenkopf, R. L. (AIAA J; see Scher, M. P.)
- Farshad, Mehdi Variations of eigenvalues and eigenfunctions in continuum mechanics. (AIAA J, TN) 560
- Farshi, B. (AIAA J; see Schmit, L. A., Jr.)
- Faulkner, H. B. The cost of noise reduction in intercity commercial helicopters. (JA) 89
- Favier, Daniel (AIAA J, TN; see Maresca, Christian)
- Fearn, D. G. (AIAA J; see Philip, C. M.)
- Fearn, D. G., Hastings, R., Philip, C. M., Harbour, P. J., and Watson, H. H. H. RAE/ Culham T4 ten centimeter electron-bombardment Mercury ion thruster. (JSR) 481
- Fearn, Richard and Weston, Robert P. Vorticity associated with a jet in a cross flow. (AIAA J) 1666
- Fein, H. L. and Shelor, D. E. Testing the external burning propulsion concept. (JSR, EN) 538
- Feldman, K. T., Jr. (PS, V. 35; see Roberts, C. C., Jr.)
- Felleman, Philip G. (A/ A, July-August; see Fraser, Donald C.)
- Feller, W. V. (AIAA J, TN; see Hillard, M. E., Jr.)
- Felton, Lewis P. (AIAA J, TN; see Fuchs, Moshe)
- Ferri, Antonio, Elzweig, Sheldon, and Baronti, Paolo Numerical solution of transonic flows about quasi-cylindrical configurations. (AIAA J, TN) 1447
- Fettis, Henry E. Determination of bending influence coefficients from bending slope data. (AIAA J, TN) 112
- Method for determining the effect of added stores on aeroelastic systems. (AIAA J, TN) 1733
- Fève, Philippe (PS, V. 32; see Blachier, Bruno)
- Fidler, John E. Approximate method for estimating wake vortex strength. (AIAA J) 633
- Filotas, L. T. Oblique compressible Sears function. (AIAA J, TN) 1601
- Finke, Robert C. (JSR, EN; see Kerslake, William R.)
- (PS, V. 33; see Herron, B. G.)
- Finke, R. C. (JSR; see Nakanishi, S.)
- Finley, S. G. (JSR; see Thornton, C. L.)
- Fiore, Anthony W. (A/ A, June; see Dayman, Bain, Jr.)
- Fiorino, Thomas D. and Rasmussen, Maurice L. Integral approximation for slender-body shock shapes in hypersonic flow. (AIAA J, TN) 1735
- Fischer, Michael C. and Weinstein, Leonard M. Turbulent compressible three-dimensional mean flow profiles. (AIAA J, SYN) 131
- Fitzsimmons, Richard D. Concorde: Testing the market. (A/ A, July-August) 46
- Flaherty, Richard J. Arbitrary pressure gradient integral technique for predicting boundary layer and thermal parameters. (JA) 293
- Flanders, H. R. (JSR; see Lebsock, K. L.)
- Flax, Alexander H. Rayleigh and Ritz revisited. (AIAA J, TN) 224
- Comment on "Correlation of wing-body combination lift data." (JA, TC) 303
- Fleming, R. W. (AIAA J; see Cohen, N. S.)
- Fletcher, L. S. (PS, V. 35; see Miller, R.)
- (AIAA J; see Galwin, L. S.)
- Fletcher, L. S. and Miller, R. G. Thermal conductance of gasket materials for spacecraft joints. (PS, V. 35) 335
- Fletcher, L. S. and Shoup, T. E. Optimum design of elastomeric gaskets for combined thermal and vibration performance. (JSR, EN) 344
- Follett, W. H., Ostwald, L. T., Simpson, J. O., and Spencer, T. M. Decade of improvements to orbiting solar observatories. (JSR) 327
- Forney, J. A. (JSR; see Masek, R. V.)
- Forrestal, M. J. and Overmier, D. K. An experiment on an impulse loaded elastic ring. (AIAA J, TN) 722
- Forster, Karl M. Comment on "A graphical method for the investigation of shock interference phenomena." (AIAA J, TC) 1167
- Fosth, D. C. (JSR, EN; see Clark, R. N.)
- Foudriat, Edwin C. Aircraft 4-D constant velocity control system. (JA) 326
- Fowler, Wallace T. (JSR; see Garcia, Frank, Jr.)
- (AIAA J; see Gottlieb, R. G.)
- Fox, Herbert Looking before you leap—The state of the art of technology assessment. (A/ A, Nov.) 40
- Fox, John H. On the structure of jet plumes. (AIAA J, TN) 105
- Francis, E. C., Carleton, C. H., and Lindsey, G. H. Viscoelastic fracture of solid propellants in pressurization loading conditions. (JSR) 691
- Francis, Philip H. (AIAA J, SA; see Bert, Charles W.)
- Franklin, C. A. and Davison, E. H. High-power communications

- technology satellite for the 12- and 14-GHz bands. (PS, V. 32) 87
- Franklin, Charles E. (A/ A, Sept.; see Colby, Starr J.)
- Franks, W. J. (AIAA J, TN; see Wortman, A.)
- Comments on "Solution of nonlinear problems in magnetofluidynamics and non-Newtonian fluid mechanics through parametric differentiation." (AIAA J, TC) 1455
- Fraser, Donald C. and Felleman, Philip G. Digital fly-by-wire—Computers lead the way. (A/ A, July-August) 25
- Free, Bernard and Huson, George Selected comparisons among propulsion systems for communications satellites. (PS, V. 33) 245
- Freeman, W. T., Jr. (JSR; see Vicario, A. A., Jr.)
- Frey, Elmer J., Raab, Bernard, Schock Alfred, and Carpenter, Robert T. Spacecraft standardization through nuclear power. (JSR, SYN) 741
- Friedlander, Alan L. Comet Encke flyby—Asteroid rendezvous mission. (JSR, EN) 270
- (JSR; see Niehoff, John C.)
- Friedman, Herbert Exotic astrophysics. (A/ A, April) 20
- Friedmann, P. and Silverthorn, L. J. Aeroelastic stability of periodic systems with application to rotor blade flutter. (AIAA J) 1559
- Frohn, A. (AIAA J, TN; see Garen, W.)
- Frutkin, Arnold W. Apollo-Soyuz: A substantial engagement. (A/ A, Dec.) 24
- Fry, R. S. and Nicholls, J. A. Blast initiation and propagation of cylindrical detonations in MAPP-air mixtures. (AIAA J) 1703
- Fuchs, Moshe and Felton, Lewis P. On a class of fully stressed trusses. (AIAA J, TN) 1597
- Fuhs, Allen E. (PS, V. 34; see Margerum, Gordon W.)
- (AIAA J; see Biblarz, Oscar)
- Fujimori, Yoshinori Shear and moment response of the airplane wing to nonstationary turbulence. (AIAA J, SYN) 1459
- Fujita, Hajime and Kovaszny, Leslie S. G. Unsteady lift and radiated sound from a wake cutting airfoil. (AIAA J) 1216
- Fulton, Robert E., Sobieszcanski, J., Storaasli, O., Landrum, Emma Jean, and Loendorf, D. Application of computer-aided aircraft design in a multidisciplinary environment. (JA, SYN) 369
- Funk, G. (AIAA J; see Huang, N. C.)
- Gabel, R. and Tarzanin, F., Jr. Blade torsional tuning to manage large amplitude control loads. (JA) 460
- Galowin, L. S., Fletcher, L. S., and DeSantis, M. J. Investigation of laminar flow in a porous pipe with variable wall suction. (AIAA J) 1585
- Ganz, Anthony A. and Serra, Raymond A. Boundary conditions and uniqueness in internal gas dynamic flows. (AIAA J, SYN) 263
- Gaonkar, G. H. A study of lifting rotor flapping response peak distribution in atmospheric turbulence. (JA) 104
- Garber, Vitalij Remotely piloted vehicles for the Army. (A/ A, Oct.) 46
- Garcia, Frank, Jr. and Fowler, Wallace T. Thermal protection system weight minimization for the space shuttle through trajectory optimization. (JSR) 241
- Garen, W., Synofzik, R., and Frohn, A. Shock tube for generating weak shock waves. (AIAA J, TN) 1132
- Garrison, C. J. Hydrodynamics of large objects in the sea. Part I—Hydrodynamic analysis. (JH) 5
- Garth, D. R. (PS, V. 33; see Herron, B. G.)
- Geissler, W. Three-dimensional laminar boundary layer over a body of revolution at incidence and with separation. (AIAA J, TN) 1743
- Gell, D. (AIAA J, TN; see Sherman, P. M.)
- Gentry, Carl L. (AIAA J, TN; see Roper, Alan T.)
- Gentry, Roy (AIAA J; see Vander Veen, Richard)
- George, A. R. (JA; see Seebass, A. R.)
- Georgeff, Michael P. Momentum integral method for viscous-inviscid interactions with arbitrary wall cooling. (AIAA J) 1393
- Extension of the momentum integral method to three-dimensional viscous-inviscid interactions. (AIAA J, TN) 1603
- Gerber, Nathan and Bartos, Joan M. Strong spherical blast waves in a dust-laden gas. (AIAA J, TN) 120
- Gerhart, Philip M. On prediction of separated boundary layers with pressure distribution specified. (AIAA J, TN) 1278
- German, R. C., Robinson, C. E., High, M. D., and Lauer, R. F. Aircraft turbine engine emissions under simulated supersonic flight conditions. (JA) 472
- Gersten, K. and Gross, J. F. Reply by author to A. Wortman. (AIAA J, TC) 574
- Ghia, K. N. and Davis, R. T. A study of compressible potential and asymptotic viscous flows for corner region. (AIAA J) 355
- and Davis, R. T. A study of compressible potential and asymptotic viscous flows for corner region. (AIAA J, ERR) 1456
- Ghia, U. and Davis, R. T. Navier-Stokes solutions for flow past a class of two-dimensional semi-infinite bodies. (AIAA J) 1659
- Gianelli, M. J. (PS, V. 33; see McIntyre, J. E.)
- Giesing, Joseph P. (JA, TC; see Rodden, William P.)
- Gill, J. C. Advanced technology thrust vectoring exhaust systems. (JA) 764
- Gilman, J., Jr. (JA; see Redd, L. T.)
- Ginoux, Jean J. (AIAA J, TN; see Matthews, Richard D.)
- Giri, J. (AIAA J, TN; see Rehfield, L. W.)
- Glasgow, Edsel R. and Santman, Don M. Aft-end design techniques for twin-engine fighters. (JA) 39
- Glasgow, E. R. Integrated airframe-nozzle performance for designing twin-engine fighters. (JA) 354
- Glass, I. I., Chan, S. K., and Brode, H. L. Strong planar shock waves generated by explosively-driven spherical implosions. (AIAA J) 367
- Glick, Robert L. On statistical analysis of composite solid propellant combustion. (AIAA J, TN) 384
- Glickman, Roger A. (JSR; see Schuster, John R.)
- Gold, Theodore Visual perception of pilots in carrier landing. (JA) 723
- Golden, Dennis J. (JA; see Simpkins, Darrell)
- Golden, J. O. (JSR; see Bain, R. L.)
- Goldman, Robert L. Mode shapes and frequencies of clamped-clamped cylindrical shells. (AIAA J, TN) 1755
- Goldschmied, Fabio R. (JH; see Parsons, Jerome S.)
- Goldwasser, Samuel R. (AIAA J, SYN; see Saad, Michel A.)
- Good, R. E. (AIAA J; see Rosenberg, N. W.)
- Goodman, Theodore R. Reply by author to E. M. Murman and F. W. Steinle Jr. (JA, TC) 783
- Goodmanson, Lloyd T. and Gratzler, Louis B. Recent advances in aerodynamics for transport aircraft. Part II. (A/ A, January) 52
- Goodrich, Winston D. (JSR; see Bertin, John J.)
- Goodson, Raymond E. (JH; see Parsons, Jerome S.)
- Goodwin, M. A. (JSR; see Murtagh, T. B.)
- Goody, Richard The Mars emerging from a generation of discoveries. (A/ A, January) 24
- Goodykoontz, Jack H. (JA, SYN; see Reshotko, Meyer)
- Goradia, Suresh H. and Lyman, Victor Laminar stall prediction and estimation of CL_{max} . (JA) 528
- Gorzynski, Carl S., Jr. and Maycock, J. Norman Explosives and pyrotechnic propellants for use in long-term deep space missions. (JSR, SYN) 211
- Gosset, Bernard (AIAA J, SYN; see Padovan, Joseph)
- Goto, Norihiro and Washizu, Kyuichiro On the dynamics of human pilots in marginally controllable systems. (AIAA J) 310
- Gottlieb, R. G., Hull, D. G., and Fowler, W. T. Generalized perturbation method for solving two-point boundary-value problems. (AIAA J) 648
- Graham, S. C., Grant, A. J., and Jones, J. M. Transient molecular concentration measurements in turbulent flows using Rayleigh light scattering. (AIAA J, TN) 1140
- Graig, W. A. Comment on "Canadian advances in surface-piercing hydrofoils." (JH, TC) 74
- Gran, Richard (JA; see Berman, Howard)
- Grande, E. and Oates, G. C. Response of miniature pressure transducers to fluctuations in supersonic flow. (PS, V. 34) 3
- Grant, A. J. (AIAA J, TN; see Graham, S. C.)
- Graham, W. J. (AIAA J, SYN; see Vincent, T. L.)
- Gratzler, Louis B. (A/ A, January; see Goodmanson, Lloyd T.)
- Gray, A. H. (JH, EN; see Connell, G. M.)
- Gregor, R. (JA, EN; see Rosen, J. M.)
- Green, Richard N. (JSR, SYN; see Harrison, Edwin E.)
- Green, William D. Skylab II. Seeing the Sun in a different light. (A/ A, February) 36
- Greenberg, E. (PS, V. 32; see Morgan, R. P.)
- Greenberg, Joel S Risk analysis. (A/ A, Nov.) 48
- Greenberg, J. S. and Hazelrigg, G. A., Jr. Methodology for reliability-cost-risk analysis of satellite networks. (JSR) 650
- Greenberg, M. D. (JH; see Mitra, A.)
- Greene, Bruce E. (JA; see Musgrove, Max D.)
- Greene, George C. and Brink, Donald F. Method for producing a uniform, low Reynolds number jet. (JSR, EN) 604
- Greenlee, J. E. (JSR; see Murtagh, T. B.)
- Gregory, Thomas J., Bailey, Rodney O., and Nelms, Walter P. RPVs—Exploring civilian applications. (A/ A, Sept.) 38
- Gregorovich, W. S. and Westerman, C. W. A near-isotropic microwave antenna for communications satellites. (PS, V. 33) 533
- Grenleski, S. E. (PS, V. 34; see Orth, R. C.)
- Grey, Jerry AIAA holds fuel-saving session. (A/ A, May) 52
- Future engines and fuel. (A/ A, Sept.) 14
- Grose, William L. (JSR; see Evans, John S.)
- Gross, J. F. (AIAA J, TC; see Gersten, K.)
- Gross, Larry R. and Prussing, John E. Optimal multiple-impulse direct ascent fixed-time rendezvous. (AIAA J) 885

- Gruver, W. A. and Engersbach, N. H. Nonlinear programming by projection-restoration applied to optimal geostationary satellite positioning. (AIAA J) 1715
- Guenther, R. A. (AIAA J, TN; see Ericsson, L. E.)
- Gulati, S. T. and Dokmeci, M. C. Flexure of elastically supported axisymmetric shells. (AIAA J, TN) 1411
- Guman, William J. and Williams, Thomas E. Pulsed plasma microthruster for synchronous meteorological satellite. (JSR, EN) 729
- Gupta, A. K. and Sharma, S. C. Cambered Joukowski airfoil in a nonuniform weak shear flow. (JA, EN) 653
- Gupta, B. P. and Loewy, R. G. Theoretical analysis of the aerodynamic stability of multiple, interdigitated helical vortices. (AIAA J) 1381
- Gustafson, Donald E. (AIAA J, SA; see Speyer, Jason L.)
- Guy, T. B. A note on the shock standoff distance for a spherical body in supersonic flow. (AIAA J, TN) 380
- Haberle, H. (PS, V. 33; see Eckhardt, G.)
- Hacker, D. S. A simplified mixing length model of flame stability in swirling combustion. (AIAA J) 65
- Hagedorn, Peter On the stability of equilibrium sets of discrete conservative mechanical systems. (AIAA J) 1057
- Haglund, G. T. and Kane, E. J. Analysis of sonic boom flight test measurements near the shock wave extremity. (JA) 745
- Hall, D. F. and Lyon, W. C. Low thrust propulsion system effects on communication satellites. (PS, V. 33) 279
- Hall, G. Warren, Weingarten, Norman C., and Lockenour, Jerry L. Handling qualities effects on precision weapons delivery. (JA, SYN) 497
- Hall, J. Gordon, Srinivasan, G., and Rath, Jaipal S. Unsteady expansion waveforms generated by diaphragm rupture. (AIAA J, TN) 724
- Hall, Morris F. (PS, V. 34; see Schwedland, Ronald P.)
- Hallock, James N. (JA; see Brashears, M. R.)
- Halsey, N. D. Methods for the design and analysis of jet-flapped airfoils. (JA) 540
- Hamada, S. J. (PS, V. 33; see Duncan, J. W.)
- Hamed, A. and Tabakoff, W. Some effects caused by solid particles in flows. (AIAA J, SYN) 581
- Hankey, Wilbur L., Jr. (AIAA J; see Cooper, James R.)
- Hanks, Richard W. and Ricks, Brad L. Laminar-turbulent transition in flow of pseudoplastic fluids with yield stresses. (JH) 163
- Hansen, S. D. and McHarg, Q. D. Reliability and quality control of production engineering computer programs. (JA) 232
- Hanson, Charles W. and Brown, John V. Attitude determination for the SKYNET and NATO synchronous communications satellites. (PS, V. 33) 127
- Hanson, K. L. Results from tests of a large lightweight solar array unit. (PS, V. 33) 307
- Harbour, P. J. (JSR; see Fearn, D. G.)
- Hardison, Therman L. (JSR; see Childs, Dara W.)
- Hardrath, Herbert F. Fracture mechanics. (JA, Dryden Research Lecture) 305
- Hardy, H. D. Use of laser-powered optical proximity probe in advanced turbofan engine development. (PS, V. 34) 317
- Harris, Gordon L. (A/ A, February; see Seemann, Gerald R.)
- Harrison, Edwin F. (A/ A, February; see Pritchard, E. Brian)
- Harrison, Edwin F. and Green, Richard N. Orbit analysis for coastal zone oceanography observations. (JSR, SYN) 131
- Harrison, J. A. (AIAA J; see Mingori, D. L.)
- Harrje, D. T. (AIAA J; see Abderhamid, A. N.)
- Hart, Gary C. (AIAA J; see Collins, Jon D.)
- (AIAA J; see Hasselman, T. K.)
- Hartley, Danny L. Application of laser Raman scattering to the study of turbulence. (AIAA J) 816
- Hartzman, Mark Comparison of calculated static and dynamic collapse pressures for clamped spherical domes. (AIAA J, TN) 568
- Harwell, W., Edelstein, F., McIntosh, R., and Ollendorf, S. Orbiting astronomical observatory heat pipe flight performance data. (PS, V. 35) 445
- Harwit, Martin Infrared astronomy and the shuttle. (A/ A, Oct.) 23
- Hassan, H. A. (AIAA J, SYN; see Smith, Neil S.)
- Hasselman, T. K. (AIAA J; see Collins, Jon D.)
- Hasselman, T. K. and Hart, Gary C. A minimization method for treating convergence in modal synthesis. (AIAA J) 316
- Hastings, R. (JSR; see Fearn, D. G.)
- Hatt, Fritz (AIAA J, ERR; see Barker, Richard M.)
- Havener, Albert G. and Radley, Roger J., Jr. Turbulent boundary-layer flow separation measurements using holographic interferometry. (AIAA J) 1071
- Haviland, R. P. Individual and thin-route communications by satellite. (PS, V. 32) 417
- Hayden, Richard E. (JA; see Hersh, Alan S.)
- Hayes, D. T., Herskovitz, S. B., Lennon, J. F., and Poirier, J. L. Electrostatic probe measurements of chemical injection effects during a re-entry flight test. (JSR) 388
- Hazelrigg, G. A., Jr. (JSR; see Greenberg, J. S.)
- Hazen, David Design for survival. (A/ A, February) 57
- Hearn, H. C. and Young, D. L. Performance prediction model for a high-impulse monopropellant propulsion system. (JSR) 764
- Heath, R. A. and Holland, W. B. Skylab experience with Apollo docking/ latching loads. (JSR) 107
- Hebbar, K. S. (AIAA J, TN; see Murthy, A. V.)
- Hedrick, J. Karl (JA; see Nichols, M. A.)
- Hefner, Jerry N. Vortex-induced heating to a cone-cylinder body at Mach 6. (JSR, EN) 127
- Hefner, Jerry N. and Cary, Aubrey M., Jr. Swept-slot film-cooling effectiveness in hypersonic turbulent flow. (JSR, EN) 351
- Hefner, Jerry N. and Whitehead, Allan H., Jr. Vortex-induced heating to cone flaps at Mach 6. (JSR, EN) 200
- Hegner, H. R. Engine condition monitor system to detect foreign object damage and crack development. (PS, V. 34) 531
- Heidt, L. E. (AIAA J; see Ehhalt, D. H.)
- Helliwell, William S. (AIAA J; see Lubard, Stephen C.)
- Hempel, Peter R. High-speed computation of ascent trajectories within iterative loops using collocation methods. (AIAA J, SYN) 1467
- Hender, Douglas R. (JSR; see Schuster, John R.)
- (JSR; see Masek, R. V.)
- Henderson, H. LeRoy (JSR; see Luttrell Alvin L.)
- Henry, Samuel (JA, SYN; see Roskam, Jan)
- Henry, V. F., Whitworth, J. E., and Neham, E. A. Quantifying parameters influencing the spacing of geostationary satellites. (PS, V. 32) 309
- Henschel, Frohmuth, Plaetschke, Ermin, and Schulze, Hans-Kurt Minimum noise climbout trajectories of a VTOL aircraft. (JA, EN) 429
- Heppe, R. R., Channel, L. E., and Cook, C. W. S-3A—A new dimension in airborne sea control. (JA) 577
- Heppenheimer, T. A. Spaceborne very-long-baseline radio astronomy interferometry. (JSR, EN) 268
- Holographic structural control for large space reflectors and radio telescopes. (JSR, EN) 536
- Equations of motion for the perturbed restricted three-body problem. (AIAA J, TN) 1442
- Hering, R. G. (PS, V. 35; see Smith, T. F.)
- Hermance, C. E. Ignition analysis of adiabatic, homogeneous systems including reactant consumption. (AIAA J, ERR) 1008
- Hermesen, R. W. (AIAA J, TN; see Dunlap, R.)
- Herron, B. G., Barth, D. R., Finke, R. C., and Shumaker, H. A. Power processing systems for ion thrusters. (PS, V. 33) 261
- Hersh, Alan S., Soderman, Paul T., and Hayden, Richard E. Investigation of acoustic effects of leading-edge serrations on airfoils. (JA) 197
- Herskovitz, S. B. (JSR; see Hayes, D. T.)
- Hiergeist, F., De Montlivault, J. L., and Payet, G. The Earth segment in the symphonie project. (PS, V. 32) 231
- High, M. D. (AIAA J, TN; see Benek, J. A.)
- (JA; see German, R. C.)
- Hildebrand, C. E. (JSR; see Ransford, G. A.)
- Hill, Maynard L. and Hoppel, William A. Comment on "Wind effects on electrostatic autopilots." (JA, TC) 781
- Hillard, M. E., Jr., Hunter, W. W., Jr., Meyers, J. F., and Feller, W. V. Simultaneous Raman and laser velocimeter measurements. (AIAA J, TN) 1445
- Hillard, Mervin E., Jr., Morrisette, E. Leon, and Emory, M. Lawrence Raman scattering applied to hypersonic air flow. (AIAA J, TN) 1160
- Hillard, Stanley E. Frequency determination from similarity considerations. (JA, EN) 651
- Hillberry, B. M. (AIAA J; see Probst, E. P.)
- Hintz, Gerald R. Orbit trim strategies for the 1975 Mars Viking mission. (JSR) 783
- Hirata, Y., Kyogoku, M., and Isomura, E. A study on satellite communications for mobiles. (PS, V. 32) 249
- Hitzl, Donald L. Computer illustrations of Earth satellite orbits. (JSR, EN) 346
- Hodapp, Albert E., Jr. Effects of unsymmetrical stability derivative characteristics on re-entry vehicle trim angle behavior. (JSR) 300
- Effect of transverse products of inertia on re-entry vehicle trim angle behavior. (JSR, EN) 733
- Hoffman, Joe D. (AIAA J; see Elsbernd, Arnold A.)
- (AIAA J, SYN; see Taylor, Allan A.)
- (AIAA J; see Vander Veen, Richard)

- Hoffman, Joe D. and Maykut, A. R. Gas dynamic gain of supersonic thrust nozzles. (JSR) 697
- Hoffman, M. A. (AIAA J; see Doss, E. D.)
- Hojnacki, J. (PS, V. 34; see Matthews, B. J.)
- Holcomb, L. B. and Lee, D. H. Survey of auxiliary-propulsion systems for communications satellites. (PS, V. 33) 191
- Holdeman, James D. Dispersion and dilution of jet aircraft exhaust at high-altitude flight conditions. (JA) 483
- Holland, W. B. (JSR; see Heath, R. A.)
- Holmes, Leroy A. (JSR; see Lovrich, Thomas M.)
- Holmes, R. E. (JA, EN; see Mays, J. A.)
- Holster, Jesse L. and Astleford, William J. Analytical model for liquid rocket propellant feedline dynamics. (JSR) 180
- Honecker, J. J., Jr. (JSR, EN; see Jenkins, R. B.)
- Hong, Yong S. Base flow analysis for a dual-engine booster. (JSR, SYN) 209
- Hooper, Richard M. (PS, V. 34; see Johnson Bruce V.)
- Hoppel, William A. (JA, TC; see Hill, Maynard L.)
- Horn, W., Barr, G., Carter, L., and Stearnman, R. Recent contributions to experiments on cylindrical shell panel flutter. (AIAA J) 1481
- Hornkohl, J. O. (PS, V. 34; see Lennert, A. E.)
- Horstman, C. C. and Owen, F. K. New diagnostic technique for the study of turbulent boundary-layer separation. (AIAA J, TN) 1436
- Horton, Harry P. Separating laminar boundary layers with prescribed wall shear. (AIAA J, TN) 1772
- Horton, M. D. and Coates, R. L. T-Burners: Experiments compared with theory. (JSR, EN) 48
- Howe, John T. Hydrogen ionization in the shock layer for entry into the outer planets. (AIAA J, TN) 875
- Howell, John R. (PS, V. 35; see Sohal, Manohar S.)
- Hsieh, B. J. (AIAA J; see Belytschko, Ted)
- Hsin, Chen-Chung. Arrested landing studies for STOL aircraft. (JA) 159
- Hsu, T. R. and Bertels, A. W. M. Improved approximation of constitutive elastoplastic stress-strain relationship for finite element analysis. (AIAA J, TN) 1450
- Hua, Hsiehchun M. Reply by author to W. P. Rodden, J. P. Giesing, T. P. Kalman, and J. C. Rowan. (JA, TC) 367
- Huang, N. C. and Funk, G. Inelastic buckling of a deep spherical shell subject to external pressure. (AIAA J) 914
- Huang, S. N. and Alspaugh, D. W. Minimum weight sandwich beam design. (AIAA J, SYN) 1617
- Huberman, M. N. and Rosen, S. G. Advanced high-thrust colloid sources. (JSR) 475
- Hubert, Carl H. (JSR; see Alfriend, Kyle T.)
- Huffman, G. David and Tramm, P. C. Airfoil design for high tip speed compressors. (JA) 682
- Hugel, Helmut. Flow rate limitations in the self-field accelerator. (AIAA J, SYN) 1461
- Hughes, T. A. (PS, V. 35; see Schmitt, R. J.)
- Hull, D. G. (AIAA J; see Gottlieb, R. G.)
- Humbad, N. G. Comment on the equation for aeroelastic divergence of unguided launch vehicles. (AIAA J, TN) 1739
- Huneidi, F. (JSR; see Niblock, G. A.)
- Hunt, David A. Various aspects of the structural theory of liquids. (AIAA J) 1548
- Hunt, James L., Jones, Robert A., and Midden, Raymond E. Simulation of real-gas effects for Mars entry. (JSR, EN) 62
- Hunter, J. H. (PS, V. 35; see Hwangbo, H.)
- Hunter, W. W., Jr. (AIAA J, TN; see Hillard, M. E., Jr.)
- Huson, George (PS, V. 33; see Free, Bernard)
- Hust, Jerome G. (AIAA J, SA; see Clark, Alan F.)
- Hwangbo, H., Hunter, J. H., and Kelly, W. H. Analytical modeling of spacecraft with heat pipes and louvers. (PS, V. 35) 469
- Hyde, J. R. (A/ A, Sept.; see Beckman, J. C.)
- Hymas, C. E., Cavin, R. K., III, and Colunga, D. Reply by authors to L. J. Wood. (AIAA J, TC) 1454
- Inber, Murray. Temperature extrapolation mechanism for two-dimensional heat flow. (AIAA J) 1089
- Inger, G. R. Supersonic laminar flow past a small rear-facing step. (AIAA J, SYN) 739
- Viscous effects in massively ablating planetary entry body flowfields. (JSR, EN) 540
- Supersonic laminar base pressure, heat-transfer, and upstream influence correlations for small steps. (AIAA J, TN) 1157
- Inouye, Kenji and Tate, Atsushi. Finite-difference version of quasi-linearization applied to boundary-layer equations. (AIAA J, TN) 558
- Ishiguro, Tomiko. Calculations of flow around a semi-infinite flat plate in a shock tube. (AIAA J, TN) 376
- Isley, William C. and Duck, Kenneth I. Propulsion requirements for communications satellites. (PS, V. 33) 165
- Isogai, Koji. Lifting-surface theory for an oscillating T-Tail. (AIAA J) 28
- Isomura, E. (PS, V. 32; see Hirata, Y.)
- Iversen, James D. and Bernstein, Shmuel. Trailing vortex effects on following aircraft. (JA, EN) 60
- Jackson, J. P. and Nielsen, P. E. Role of radiative transport in the propagation of laser supported combustion waves. (AIAA J) 1498
- Jackson, Robert W. (JSR; see Dyer, John W.)
- Jackson, Roy P. Putting all our noise technology to work. (A/ A, January) 48
- Jacobs, T. A. (AIAA J, SYN; see Shackelford, W. L.)
- Jacobson, Ira D. Contribution of a wall shear stress to the Magnus effect on nose shapes. (AIAA J, TN) 1003
- Jacobson, Robert A. and Powers, William F. Iterative explicit guidance for low thrust spaceflight. (JSR) 494
- Jacobson, Robert A., McDanell, James P., and Rinker, George C. Terminal navigation analysis for the 1980 Comet Encke slow flyby mission. (JSR) 590
- Jaffe, Leonard D. and Choate, Raoul. Unmanned surface traverses of Mars and Moon: Science objectives, payloads, operations. (JSR, SYN) 353
- Jaffe, N. A. (AIAA J; see Clark, K. J.)
- Jahn, Robert G. (AIAA J; see Bruckner, Adam P.)
- Jain, A. C. and Adimurthy, V. Hypersonic merged stagnation shock layers. Part I: Adiabatic wall case. (AIAA J) 342
- Hypersonic merged stagnation shock layers. Part II: Cold wall case. (AIAA J) 348
- Jain, V. K. (AIAA J, TN; see Dhameja, R. K.)
- Jakubowski, Antoni K. A wind-tunnel study of spinning conical disk decelerators at Mach 4. (JSR) 141
- James, R. M. and Panico, V. D. Evaluation of drag integral using cubic splines. (JA, EN) 494
- Janardan, B. A., Daniel, B. R., and Zinn, B. T. Damping of axial instabilities by small-scale nozzles under cold-flow conditions. (JSR) 812
- Jannssen, Terry L. and Swaney, Thomas G. Shell instability analysis applied to a radome. (AIAA J, TN) 714
- Jansson, B. (JH; see Almqvist, H.)
- Jefferis, A. K. (PS, V. 33; see Withers, D. J.)
- Jen, H. (JA, EN; see Bloom, A. M.)
- Jenkins, R. B., Taylor, J. P., and Honecker, H. J., Jr. Development of the Astrobee F sounding rocket system. (JSR, EN) 56
- Jensen, D. E. Comment on "Effects of nonequilibrium ablation chemistry on Viking radio blackout." (JSR, TC) 736
- Jerath, N. (JSR; see Duxbury, T. C.)
- Jerath, Navin and Ohtakay, Hiroshi. Mariner IX optical navigation using Mars lit limb. (JSR) 505
- Johns, D. J. (JSR; see Parthan, S.)
- Johnsen, Gary W. (JSR; see Chapter, John J.)
- Johnson, Bruce V., Marman, Henry V., Brent, John A., and Hooper, Richard M. Measurement of instantaneous air angle and total temperature fluctuations behind transonic compressor rotors. (PS, V. 34) 179
- Johnson, C. P. (AIAA J, TC; see Oden, J. T.)
- Johnson, D. A. Attitude stability of multibody symmetrical satellites with mechanical dampers. (JSR) 645
- Johnson, Dennis A. Turbulence measurements in a Mach 2.9 boundary layer using laser velocimetry. (AIAA J, TN) 711
- Johnson Donald W. Sounding rocket payload recovery systems. (JSR, EN) 424
- Johnson, John A. Opportunities for U.S.-European cooperation in application satellite programs. (PS, V. 32) 47
- Johnson, J. M., Jr. Digital filters using observers applied to ICBM control system design. (JSR) 498
- Johnson, R. C. (PS, V. 34; see Krause, L. N.)
- Johnson, R. L. and O'Keefe, J. D. Laser burnthrough time reduction due to tangential airflow—An interpolation formula. (AIAA J) 1106
- Johnson, Walter A., Teper, Gary L., and Rediess, Herman A. Study of control system effectiveness in alleviating vortex wake upsets. (JA) 148
- Johnson, W. Donald (AIAA J; see Williams, James C., III)
- (AIAA J, TN; see Williams, James C., III)
- Johnston, Sheridan C. Reply by author to U. H. Kurzweg. (AIAA J, TC) 416
- Jolly, Alexander C. (JSR, SYN; see Pastrick, Harold L.)
- Jones, B. A. On the determination of the internal aerodynamics of compressors. (PS, V. 34) 109
- Jones, J. C. (JH; see Lavis, D. R.)
- Jones, J. M. (AIAA J; see Graham, S. C.)
- Jones R. and Mazumdar, J. A method of static analysis of shallow shells. (AIAA J, TN) 1134
- Jones, Richard B. and Lutze, Frederick H., Jr. Computer simulation of near midair collisions in the terminal environment. (JA) 457

- Jones, Robert A. (JSR, EN; see Hunt, James L.)
- Jones, Robert A. and Richie, Christine B. Effect of wall temperature spatial variations on aerodynamic heating to an actively cooled aircraft. (JA, EN) 488
- Jones, Robert E. (AIAA J; see Niedzwiecki, Richard W.)
- Jones, Robert M. Stiffness of orthotropic materials and laminated fiber-reinforced composites. (AIAA J, TN) 112
- Jones, Robert T. and Nisbet, James W. Transonic transport wings—Oblique or swept? (A/ A, January) 40
- Kalb, H. T. (PS, V. 34; see Lennert, A. E.)
- Kale, P. P., Nickelson, R. L., and Sarles, F. W., Jr. A design for INSAT. (PS, V. 32) 173
- Kaloni, Purna N. and Smith, Raymond Penny-shaped crack in a linear viscoelastic medium under torsion. (AIAA J, TN) 1745
- Kane, T. R. Spin stability of torque-free systems containing rotors. (AIAA J, TN) 720
- Kalman, Terez P. (JA, TC; see Rodden, William P.)
- Kane, E. J. (JA; see Haglund, G. T.)
- Kang, Sang-Wook and Dunn, Michael G. Reply by authors to E. W. Miner and C. H. Lewis. (AIAA J, TC) 127
- Kao, Hsiao C. Some aspects of airfoil stall in low-speed flow. (JA) 177
- Kao, Tsai-tse and Elrod, Harold G., Jr. Laminar shear-stress pattern for nonsimilar incompressible boundary layers. (AIAA J) 1401
- Kaplan, Marshall H. Active attitude and orbit control of body-oriented geostationary communications satellites. (PS, V. 33; 29—(AIAA J; see Edwards, Terry L.)
- Karamcheti, K. (AIAA J; see Woolley, James P.)
- Kassal, Thomas T. Scattering properties of ice particles formed by release of H₂O in vacuum. (JSR, EN) 54
- Katz, Herbert Experiences in the design and application of turbine blade pyrometers. (PS, V. 34) 409
- Kaufman, Howard (JA, SYN; see Bischoff, David)
- Kayser, Lyle D. and Danberg, James E. Experimental study of separation from the base of a cone at supersonic speeds. (AIAA J, TN) 1607
- Keigler, J. E., Lindorfer, W. J., and Muhlfelder, L. Momentum wheel three-axis attitude control for synchronous communication satellites. (PS, V. 33) 141
- Keith, Theo G., Jr. Subsonic flow into a downstream facing inlet. (JA, EN) 251
- Kelley, James H. Hydrazine attitude-control propulsion: Evolution of a standardization program. (A/ A, June) 34
- Kelly, J. G. (JH; see Sandman, B. E.)
- Kelly, W. H. (PS, V. 35; see Hwangbo, H.)
- Kemp, Nelson H. Lift and moment for arbitrary power-law upwash in oscillating subsonic unsteady thin-airfoil theory. (AIAA J, TN) 413
- Kendall, B. M. (PS, V. 35; see Basilius, E. A.)
- Kenkare, A. S. (JSR, EN; see Lewis, J. G.)
- Kennedy, Bruce (AIAA J; see Collins, Jon D.)
- Kennedy, Lawrence A. (AIAA J; see Scaccia, Carl)
- Kerslake, William R. and Finke, Robert C. SERT II hollow cathode multiple restarts in space. (JSR, EN) 669
- Kerzner, Harold and Krier, Herman Finite-thickness diffusion flames over apyrolyzing fuel plate. (AIAA J, TN) 1155
- Keshock, Edward G. Thermal conductivity measurements of porous materials in several gaseous environments. (JSR) 41
- Kiesling, J. D. (PS, V. 32; see Podraczky, E.)
- Kilgore, R. A. (A/ A, Oct.; see Polhamus, E. C.)
- Kilgore, Robert A., Adcock, Jerry B., and Ray, Edward J. Flight simulation characteristics of the Langley high Reynolds number cryogenic transonic tunnel. (JA) 593
- Kim, H. W. (AIAA J, SYN; see Yang, T. Y.)
- Kimble, K. R., Liu, D. D., Ruo, S. Y., and Wu, J. M. Unsteady transonic flow analysis for low aspect ration, pointed wings. (AIAA J) 516
- King, Joseph H. Solar proton fluences for 1977-1983 space missions. (JSR) 401
- King, Wilton W. (AIAA J, TN; see Morgan, Joseph D., III)
- King, Wilton W. and Lin, Chien-Chang Applications of Bolotin's method to vibrations of plates. (AIAA J, TN) 399
- Kinney, Robert B. (AIAA J; see Schmall, Robert A.)
- Kirchhoff, R. H. and Burbank, R. A. Response of a hot wire oscillating in a shear flow. (AIAA J, TN) 96
- Kirchhoff, R. H. and Safarik, R. R. Turbulence calibration of a hot wire anemometer. (AIAA J, TN) 710
- Kirkpatrick, J. P. and Brennan, P. J. Advanced thermal control flight experiment. (PS, V. 35) 409
- Kirlin, William F. (A/ A, Sept.; see Kresa, Kent)
- Kirszenblat, Albert Determination of allowable tolerances for asymmetries of a free rolling missile. (JSR) 295
- Kirszenblat, A. and Chetrit, M. Least squares nonlinear parameter estimation by the iterative continuation method. (AIAA J, TN) 1751
- Kishore, K. (AIAA J, SYN; see Rastogi, R. P.)
- (AIAA J, TN; see Rastogi, R. P.)
- (AIAA J; see Rastogi, R. P.)
- Kitchens, Clarence W., Jr. Calculation of low Reynolds number flow past a square protuberance. (AIAA J, TN) 1005
- Kitscha, W. W. (PS, V. 35; see Yovanovich, M. Michael)
- Kleinbub, D. L. (JSR, SYN; see Liang, A. C.)
- Klunker, E. B. and Newman, P. A. Computation of transonic flow about lifting wing-cylinder combinations. (JA, EN) 254
- Knopow, J. J. Next generation communications satellites. (PS, V. 32) 63
- Kobayashi, Ryoji Taylor-Gortler instability of a boundary layer with suction or blowing. (AIAA J, TN) 394
- Kochevar, Henry J. Measurements of Earth station antennas G/ T ratio by radio stars and satellites. (PS, V. 33) 359
- Koenig, Walter A. (PS, V. 32; see Blachier, Bruno)
- Kohlman, David L. and Brainerd, Carl H. Evaluation of spoilers for light aircraft flight path control. (JA) 449
- Kohnecke, B. (JSR; see Rex, D.)
- Kollrack, Reiner (AIAA J; see Aceto, Leonard D.)
- Koosinlin, M. L. and Lockwood, F. C. The prediction of axisymmetric turbulent swirling boundary layers. (AIAA J) 547
- Korn, James A. Compressor distortion estimates using parallel compressor theory and stall delay. (JA, EN) 584
- Kosakoski, R. A. and Collins, D. J. Application of holographic interferometry to density field determination in transonic corner flow. (AIAA J) 767
- Kosson, R. L. (PS, V. 35; see Dominguez, P. J.)
- Kovaszny, Leslie S. G. (AIAA J; see Fujita, Hajime)
- Krause, L. N., Dudzinski, T. J., and Johnson, R. C. Total pressure averaging in pulsating flows. (PS, V. 34) 193
- Kresa, Kent and Kirlin, William F. Mini-RPVs: Big potential, small cost. (A/ A, Sept.) 48
- Krider, E. P., Noggle, R. C., Uman, M. A., and Orville, R. E. Lightning and the Apollo 17/ Saturn V exhaust plume. (JSR) 72
- Krier, Herman (AIAA J, TN; see Kerzner, Harold)
- Krishnamoorthy, G. Buckling of thin cylinder under combined external pressure and axial compression. (JA) 65
- Buckling of open cylindrical shells with torsionally stiff rectangular edge stiffeners. (AIAA J) 1348
- Krishnamurthy, V. and Subramanian, N. R. Potential flow past annular aerofoils. (JA, EN) 712
- Krupp, James A. (AIAA J; see Collins, Donald J.)
- Kryvoruka, John K. (JSR, SYN; see Phillips, Robert W.)
- Kryvoruka, John K. and Ashurst, William T. Aerodynamic and flight dynamic analysis of finned re-entry vehicles. (JSR) 135
- Kubota, N., Ohlemiller, T. J., Caveny, L. H., and Summerfield, M. Site and mode of action of platonizers in double base propellants. (AIAA J) 1709
- Kuhar, Edward J. and Stahle, Clyde V. Dynamic transformation method for modal synthesis. (AIAA J) 672
- Kuhn, Gary D. and Nielsen, Jack N. Prediction of turbulent separated boundary layers. (AIAA J, SYN) 881
- Kulla, D. (JA; see Coe, Paul L., Jr.)
- Kumar, K. (AIAA J, TN; see Modi, V. J.)
- Kumar, Rajnish and Ahmed, Shabeer Analysis of thickness tapered booms for space applications. (JSR, EN) 125
- Kuo, B. C., Seltzer, S. M., Singh, G., and Yackel, R. A. Design of a digital controller for spinning flexible spacecraft. (JSR) 584
- Kuo, Ching-Chiang (AIAA J; see Morino, Luigi)
- Kuo, K. K. and Summerfield, M. Theory of steady-state burning of gas-permeable propellants. (AIAA J) 49
- Kurfess, James D. Superpressure balloons for long-duration flight. (A/ A, April) 68
- Kurtz, Helmut L. (JSR; see Di Capua, Marco S.)
- Kurzweg, Ulrich H. Comment on "Stability of rotating stratified fluids." (AIAA J, TC) 415
- Kusomoto, Keiichi, Yoshikawa, Takao, and Murasaki, Toshimitsu Ion current collection by cylindrical electrostatic probe in a flowing plasma. (AIAA J, TN) 726
- Kutler, Paul Supersonic flow in the corner formed by two intersecting wedges. (AIAA J, SYN) 577
- Kutschenreuter, P. H., Jr., Collins, T. P., and Vier, W. F., III P³G—A new dynamic distortion generator. (JA) 344
- Kwok, Munson A. (AIAA J; see Varwig, Robert L.)
- Kyogoku, M. (PS, V. 32; see Hirata, Y.)
- Lai, R. Y. S. (AIAA J, TN; see Sun, C. T.)
- Laitone, E. V. and Lin, Wen-Fan Effect of thrust on the longitudinal oscillations of missiles. (JSR, EN) 121
- Lakshmikantham, C. and Tsui, Tien-Yu Dynamic stability of axially-

- stiffened imperfect cylindrical shells under axial step loading. (AIAA J) 163
 —(AIAA J; see Wan, F. Y. M.)
- Lakshminarayana, B. (JA; see Robbins, B.)
- Lam, T. T. (PS, V. 35; see Armaly, B. F.)
- Lan, C. Edward Quasi-vortex-lattice method in thin wing theory. (JA) 518
 —Some characteristics of airfoil-jet interaction with Mach number nonuniformity. (JA, EN) 491
- Landrault, C. (JSR; see Costes, A.)
- Landrum, Emma Jean (JA, SYN; see Fulton, Robert E.)
- Landweber, L. Axisymmetric potential flow in a circular tube. (JH) 137
- Larson, Victor Suboptimal controller for a linearized n -body spacecraft. (JSR, EN) 858
- Lastman, G. J. Transformation for the numerical integration of systems of the form $\dot{X}(t) = F[X(t)]$. (AIAA J, TN) 1430
- Lau, R. A. (JSR; see Moog, R. D.)
- Lauchle, Gerald C. Dynamic hinge moment of a low aspect ratio control surface. (JH, EN) 119
- Laudadio, John F. Prediction of pressure fluctuation in sounding rockets and manifolded recovery systems. (JSR, EN) 119
- Lauer, R. F. (JA; see German, R. C.)
- LaVean, Gilbert E. and Martin, Edward J. Communication satellites: The second decade. (A/ A, April) 54
- Lavis, D. R., Bartholomew, R. J., and Jones, J. C. Response of air cushion vehicles to random seaways and the inherent distortion in scale models. (JH) 83
- Law, C. Herbert Supersonic, turbulent boundary-layer separation. (AIAA J) 794
- Law, C. K. Surface reaction model for metal particle combustion. (AIAA J, TN) 1612
- Laws, G. T. (AIAA J; see Walkden, F.)
- Lebsock, K. L., Flanders, H. R., and Rodden, J. J. Simulation and testing of a double-gimbal momentum wheel stabilization system for communication satellites. (JSR) 395
- Ledder, H. J. (JA; see Boothe, E. M.)
- Lederman, S. (AIAA J, TN; see Avidor, J. M.)
- Lederman, S. and Bornstein, J. Application of Raman effect to flowfield diagnostics. (PS, V. 34) 283
- Lee, D. H. (PS, V. 33; see Holcomb, L. B.)
- Lee, L. H. N. Inelastic asymmetric buckling of ring-stiffened cylindrical shells under external pressure. (AIAA J) 1051
- Lee, Patrick H. W. (AIAA J; see Wu, James H. T.)
- Lee, Wilfred E. (PS, V. 33; see Cuccia, C. Louis)
- Leech, John W. (AIAA J; see Morino, Luigi)
- Lefferdo, James M. (AIAA J, TN; see Rao, Prabhakara P.)
- Leiby, David W. A systems engineering approach to effective engine condition monitoring. (PS, V. 34) 481
- Lemley, C. E. and Mullans, R. E. Transonic wind-tunnel and flight buffet pressures on a swept wing. (JA) 173
- Lemmon, E. Clark (JSR; see Coleman, Hugh W.)
- Lengrand, Jean-Claude and Cloupeau, Michel Application of Smith's model to rotational temperature measurements in nitrogen. (AIAA J) 812
- Lennert, A. E., Hornkohl, J. O., and Kalb, H. T. Application of laser velocimeters for flow measurements. (PS, V. 34) 77
- Lennon, J. F. (JSR; see Hayes, D. T.)
- Leonard, John W. (PS, V. 34; see Margerum, Gordon W.)
- Leong, R. K. Linear spatial stability of the plane Poiseuille flow. (AIAA J, TN) 1605
- Lesco, Daniel J. (PS, V. 34; see Buchele, Donald R.)
- Lesco, Daniel J., Sturman, John C., and Nieberding, William C. On-the-shaft data systems for rotating engine components. (PS, V. 34) 131
- Levine, Andrew S. (AIAA J, SYN; see Otterman, Bernard)
- Levy, S. A., Zinkham, R. E., and Spangler, G. E. X2048, a high strength, high toughness aluminum alloy for aircraft applications. (JA) 202
- Lewellen, W. S., Teske, M., and duP. Donaldson, Coleman Application of turbulence model equations to axisymmetric wakes. (AIAA J) 620
- Lewis, Clark H. (AIAA J, TC; see Miner, E. W.)
- Lewis, J. G., and Kenkare, A. S. Assessment of an active thermal control louvre array for spacecraft. (JSR, EN) 342
- Lewis, J. W. L. (AIAA J, TN; see Whitfield, D. L.)
- Lezius, Dietrich K. Water tank study of the decay of trailing vortices. (AIAA J) 1065
- Lhuillier, J. N. (JSR; see Barrere, M.)
- Li, C. P. Recent developments on time-dependent calculation of nonequilibrium flows. (JSR, EN) 123
- Liang, A. C. and Kleinhub, D. L. Drift compensation and acceleration resolution for a rotating platform IMU. (JSR, SYN) 547
- Libai, A. (AIAA J; see Durban, D.)
- Libby, Paul A. Wall shear at a three-dimensional stagnation point with a moving wall. (AIAA J, TN) 408
- Liber, T. (AIAA J; see Rowlands, R. E.)
- Liddle, Sidney G. Integral relations method computations of annular and asymmetric plane nozzle flowfields. (JSR) 146
- Liden, Sam P. Precision CMG control for high-accuracy pointing. (JSR) 236
- Liebing, L. and Seidel, F. Low current pulsed ablation plasma thruster. (JSR, SYN) 609
- Liegeois, Alain (JSR, EN; see Amieux, Jean Claude)
- Liepmann, H. W. (AIAA J, TN; see Barker, S. J.)
- Lilley, David G. Turbulent swirling flame prediction. (AIAA J) 219
- Lin, Chien-Chang (AIAA J, TN; see King, Wilton W.)
- Lin, J. T. Outgas dominated pressure distribution in a multilayer insulation system. (AIAA J) 1590
- Lin, T. C. and Rubin, S. G. Viscous flow over spinning cones at angle of attack. (AIAA J) 975
- Lin, Wen-Fan (JSR, EN; see Laitone, E. V.)
- Lindorfer, W. J. (PS, V. 33; see Keigler, J. E.)
- Lindsey, G. H. (JSR; see Francis, E. C.)
- Linford, R. M. F. (PS, V. 35; see Schmitt, R. J.)
- Lippisch, Alexander M. Comment on "Ram wing surface effect boat." (JH, TC) 76
- Lissaman, P. B. S. Analysis of high-aspect ratio jet-flap wings of arbitrary geometry. (JA) 259
- Liu, A. F. (JA; see Ekval, J. C.)
- Liu, Alan Fong-Ching Crack growth and failure of aluminum plate under in-plane shear. (AIAA J) 180
- Liu, D. D. (AIAA J; see Kimble, K. R.)
- Liu, Frank C. Coupled librational motions of a gyrost satellite. (JSR) 230
- Liu, J. J. Satellite motion about an oblate earth. (AIAA J) 1511
- Lobitz, Donald W. (AIAA J; see Nayfeh, Ali H.)
- Lockenour, Jerry L. (JA, SYN; see Hall, G. Warren)
- Lockwood, F. C. (AIAA J; see Kooslin, M. L.)
- Loeb, Horst W. Electric propulsion technology status and development plans—European programs. (JSR) 821
- Loendorf, D. (JA, SYN; see Fulton, Robert E.)
- Loewy, R. G. (AIAA J; see Gupta, B. P.)
- Loftin, Laurence K., Jr. Toward a second-generation supersonic transport. (JA) 3
- Lohfeld, R. E., Anand, D. K., and Whisnant, J. M. Pitch axis stabilization in eccentric orbits using a variable-speed rotor. (JSR, EN) 430
- Longstrezt, C. S. (PS, V. 34; see Small, L. L.)
- Look, D. C. Analysis of thermal radiation bidirectionally reflected from roughened brass. (AIAA J) 656
- Louis, J. F., Demirjian, A. M., and Topping, R. F. Heat transfer measurements in turbines. (PS, V. 34) 333
- Love, William J. Prediction of pressure drop in straight vortex tubes. (AIAA J) 959
- Lovelace, Alan M. Advanced composites. (JA, 11th von Karman Lecture) 501
- Lovrich, Thomas M., Schwartz, Sidney H., and Holmes, Leroy A. Flow visualization of thermal stratification with localized heat sources. (JSR) 664
- Lubard, Stephen C. and Helliwell, William S. Calculation of the flow on a cone at high angle of attack. (AIAA J) 965
- Ludewig, Hans, Manning, A. James, and Raseman, Chad J. Feasibility of rotating fluidized bed reactor for rocket propulsion. (JSR) 65
- Luthra, V. K. (AIAA J; see Afzal, Noor)
- Luttrell, Alvin L. and Henderson, H. LeRoy Pressure vessel certification based on fracture mechanics technology. (JSR) 838
- Lutze, Frederick H., Jr. (JA; see Jones, Richard B.)
- Lyman, Victor (JA; see Goradia, Suresh H.)
- Lyon, W. C. (PS, V. 33; see Hall, D. F.)
- Lyons, M. G. and DeBra, D. B. A reduced state estimator for orbital heading reference. (JSR) 97
- MacLellan, D. C. Anticipated developments in communications satellite technology. (PS, V. 32) 145
- Maddalon, Dal V. Rating aircraft on energy. (A/ A, Dec.) 26
- Maddox, S. A. (JA, EN; see Mook, D. T.)
- Mager, Artur Steady, incompressible, swirling jets and wakes. (AIAA J) 1540
- Maiersperger, Walter P. Zeppelins? Not again! (A/ A, February) 28
- Maisenhalder, F. and Mayerhofer, W. Jet-diagnostics of a self-field accelerator with Langmuir probes. (AIAA J) 1203
- Majumder, D. K. (AIAA J, TN; see Thornton, W. A.)
- Malkin, M. S. Space shuttle/ The new baseline. (A/ A, January) 62
- Mamada, Hiroshi and Ando, Shigenori Minimum induced drag of semi-

- elliptic ground effect wing. (JA, SYN) 257
- Mandal, Satyanarayan Crack in a thin infinite plate of viscoelastic medium. (AIAA J, TN) 233
- Mann, Ronald L. and Perkins, Richard W. Buckling behavior of a composite beam column. (AIAA J, TN) 872
- Manning, A. James (JSR; see Ludewig, Hans)
- Mantz, Arlan W. (PS, V. 35; see Thompson, Samuel B.)
- Marcillat, Jacques Surface flowfield induced by the turbulent boundary layer on a yawed cone. (AIAA J, TN) 1164
- Maresca, Christian, Favier, Daniel, and Rebont, Jean Instantaneous velocity measurements in the near wake of a helicopter rotor. (AIAA J, TN) 1165
- Margèrum, Gordon W., Leonard, John W., and Fuhs, Allen E. Fiber optic and laser digital pressure transducers. (PS, V. 34) 217
- Markson, Ralph Practical aspects of electrostatic stabilization. (A/ A, April) 44
- Marman, Henry V. (PS, V. 34; see Johnson, Bruce V.)
- Marsh, Elbert L. Attitude control of solar electric spacecraft by thruster gimballing. (JSR, SYN) 737
- Attitude stability of a flexible solar electric spacecraft: A parametric study. (JSR) 89
- Marshall, Larry R. (JH; see Mook, Dean T.)
- (JH; see Nayfeh, Ali H.)
- Martin, Edward J. A/ A, April; see LaVean, Gilbert E.)
- Martin, James A. Optimal payload ascent trajectories of winged vehicles. (JSR, EN) 860
- Martindale, W. R. (JSR; see Adams, J. C., Jr.)
- (JSR; see Bertin, John J.)
- Martorana, R. T. (PS, V. 35; see Vachon, W. A.)
- Masek, R. V., Hender, D., and Forney, J. A. Evaluation of aerodynamic heating uncertainties for space shuttle. (JSR) 368
- Matthews, B. J., Wuerker, R. F., Chambers, H. F., Jr., and Hojnacki, J. Holography of JP-4 droplets and combusting boron particles. (PS, V. 34) 297
- Matthews, Richard D. and Ginoux, Jean J. Correlation of peak heating in the reattachment region of separated flows. (AIAA J, TN) 397
- Matuszewski, John P. (JSR, EN; see Asher, Robert B.)
- Mau, S. T. and Tong, P. Calculation of mechanical impedance by finite element hybrid model. (AIAA J, TN) 249
- Maxwell, Barry R. Particle flow in turbomachinery with application to laser-Doppler velocimetry. (AIAA J, SYN) 1297
- Maycock, J. Norman (JSR, WYN; see Gorzynski, Carl S., Jr.)
- Mayerhofer, W. (AIAA J; see Maisenhalder, F.)
- Maykut, A. R. (JSR; see Hoffman, Joe D.)
- Mayne, R. W. (JSR, SYN; see Afimiwala, K. A.)
- Mays, J. A. and Holmes, R. E. An optimized video output from a wide angle optical probe. (JA, EN) 124
- Mazumdar, J. (AIAA J, TN; see Jones, R.)
- McClendon, Ronald W. (AIAA J; see Murphree, David L.)
- McColgan, Charles J. (AIAA J, TN; see McLaughlin, Dennis K.)
- McCormick, Michael E. Analysis of a wave energy conversion buoy. (JH) 77
- McCrory, W. W. Thermal protection for divers. (JH) 115
- McCune, James E. (AIAA J; see Okurounmu, Olufemi)
- McCutchen, C. W. Comment on "Bone articulations as systems of poroelastic bodies." (AIAA J, TC) 256
- McDanell, James P. (JSR; see Jacobson, Robert A.)
- McElroy, Michael B. (JSR; see Noll, Richard B.)
- McGregor, R. C. (JH, EN; see Swales, P. D.)
- McHarg, Q. D. (JA; see Hansen, S. D.)
- McIntosh, R. (PS, V. 35; see Harwell, W.)
- McIntyre, J. E. and Gianelli, M. J. Effect of an autotracking antenna on the nutational stability of a dual-spin spacecraft. (PS, V. 33) 85
- McInville, Roy M. (AIAA J, SYN; see Smith, Neill S.)
- McLaughlin, Dennis K. and McColgan, Charles J. Hot-wire measurements in a supersonic jet at low Reynolds numbers. (AIAA J, TN) 1279
- McLean, J. D. (AIAA J; see Dowell, E. H.)
- McLean, W. J. (AIAA J; see Anderson, L. B.)
- McManus, Neil P. (AIAA J, TN; see Schmitz, Peter D.)
- McMaster, John R. and Schenk, Frederick L. Development of the F-12 aircraft flight control system. (JA) 225
- McMillan, J. D. (AIAA J, SYN; see Schutz, B. E.)
- McNary, Charles A. (JA; see Balser, Martin)
- MeVey, D. F. and Wolf, D. F. Analysis of deployment and inflation of large ribbon parachutes. (JA) 96
- Meese, R. A. and Skifstad, J. G. Ignition and global combustion models for clouds of boron particles. (AIAA J) 71
- Meetin, Ronald J. and Seifert, Howard S. Propulsion dynamics of lunar hoppers. (JSR) 852
- Mehra, Raman K., Stepner, David E., and Tyler, James S. Maximum likelihood identification of aircraft stability and control derivatives. (JA) 81
- Meirick, R. P. (JSR; see Tewell, J. R.)
- Meirovitch, Leonard Liapunov stability analysis of hybrid dynamical systems in the neighborhood of nontrivial equilibrium. (AIAA J) 889
- A new method of solution of the eigenvalue problem for gyroscopic systems. (AIAA J) 1337
- Bounds on the extension of antennas for stable spinning satellites. (JSR, EN) 202
- Menichelli, V. J. (JSR; see Rosenthal, L. A.)
- Mercanti, Enrico P. Widening ERTS applications. (A/ A, May) 28
- Meredith, C. O. Lessons learned from INTELSAT III satellite program. (PS, V. 32) 3
- Merritt, Gordon E. Wake growth and collapse in stratified flow. (AIAA J) 940
- Mertaugh, L. J. (AIAA J, TN; see Warsi, Z. U. A.)
- Merz, A. W. The homicidal chauffeur. (AIAA J, SYN) 259
- Messner, A. M., Taylor G. Q., and Price, C. F. Interdisciplinary computer analyses of three-dimensional solids defined by polyhedral surfaces. (JSR, EN) 52
- Meyer, J. W. (AIAA J; see Anderson, L. B.)
- Meyers, J. F. (AIAA J, TN; see Hillard, M. E., Jr.)
- Midden, Raymond E. (JSR, EN; see Hunt, James L.)
- Mihlfeith, C. M. and Sayer, L. H. Novel high area ratio T-burner for characterizing metalized propellants. (JSR) 574
- Millard, John P. and Pearson, B. Douglas, Jr. Optical stability of coatings exposed to four years space environment on OSO-III. (PS, V. 35) 249
- Miller, Charles G. Flow properties in expansion tube with helium, argon, air, and CO₂ flows. (AIAA J, TN) 564
- Miller, Charles G. and Moore, John A. Shock shapes of blunt bodies in hypersonic helium, air, and CO₂ flows. (AIAA J, TN) 411
- Miller, Gabriel (AIAA J, TN; see Baronti, Paolo)
- Miller, R. G. (PS, V. 35; see Fletcher, L. S.)
- Miller, R. G. and Fletcher, L. S. Thermal conductance of porous metallic materials in a vacuum environment. (PS, V. 35) 321
- Mills, A. F. (JSR; see Wassel, A. T.)
- Miner, E. W. and Lewis, Clark H. Comment on "Hypersonic, viscous shock layer with chemical nonequilibrium for spherically blunted cones." (AIAA J, TC) 124
- Mingori, D. L. and Harrison, J. A. Circularly constrained particle motion in spinning and coning bodies. (AIAA J) 1553
- Minkowski, J. M. (AIAA J, TN; see Singer, A.)
- Mirza, Shaikat and Singh, Anand V. Axisymmetric vibration of circular sandwich plates. (AIAA J, TN) 1418
- Mitani, Tohru (AIAA J, TN; see Nioka, Takashi)
- Mitchell, C. E. (AIAA J; see Baer, M. R.)
- Mitchell, William Simulation of a ground facility for testing ramjets under flight conditions. (JSR, SYN) 449
- Mitra, A. and Greenberg, M. D. Effect of a wavy bottom on Kelvin-Helmholtz instability. (JH) 53
- Miyazawa, M. (AIAA J, TN; see Zakkay, V.)
- Modi, V. J. Attitude dynamics of satellites with flexible appendages—A brief review. (JSR, SA) 743
- (JSR, EN; see Pande, K. C.)
- Modi, V. J. and Kumar, K. Periodic solutions of gravity oriented axisymmetric systems. (AIAA J, TN) 225
- Modi, V. J. and Pande, K. C. Magnetic-solar hybrid attitude control of satellites in near-equatorial orbits. (JSR) 845
- Moffat, Robert J. (AIAA J, TN; see Pimenta, Marcos)
- Mohling, R. A. (AIAA J, SYN; see Tannehill, J. C.)
- Molitor, J. H. Ion propulsion flight experience, life tests, and reliability estimates. (JSR) 677
- Monsler, M. J. (AIAA J; see Pirri, A. N.)
- Montgomery, Leslie D. Analytic model for assessing the thermal performance of scuba divers. (JH) 108
- Montoya, Earl J. (PS, V. 34; see Schweikhard, William J.)
- Moog, R. D., Bendura, R. J., Timmons, J. D., and Lau, R. A. Qualification flight tests of the Viking decelerator system. (JSR) 188
- Mook, Dean T. (AIAA J; see Nayfeh, Ali H.)
- (JH; see Nayfeh, Ali H.)
- Mook, Dean T. and Maddox, S. A. Extension of a vortex-lattice method to include the effects of leading-edge separation. (JA, EN) 127
- Mook, Dean T., Marshall, Larry R., and Nayfeh, Ali H. Subharmonic and superharmonic resonances in the pitch and roll modes of ship motions. (JH) 32
- Moore, Jesse W. (A/ A, February; see Pritchard, E. Brian)
- Moore, John A. (AIAA J, TN; see Miller, Charles G.)
- Morel, Thomas and Torda, T. Paul Calculation of free turbulent mixing

- by the interaction approach. (AIAA J) 533
- Morgan, Joseph D., III, Anderson, Jerry M., and King, Wilton W. Elastodynamics of cracked structures using finite elements. (AIAA J, TN) 1767
- Morgan, R. P., Singh, J. P., Anderson, B. D., and Greenberg, E. Satellites for U.S. education: Needs, opportunities, and systems. (PS, V. 32) 441
- Morino, Luigi and Kuio, Ching-Chiang Subsonic potential aerodynamics for complex configurations: A general theory. (AIAA J) 191
- Morino, Luigi, Leech, John W., and Witmer, Emmett A. Optimal predictor-corrector method for systems of second-order differential equations. (AIAA J) 1343
- Morrisette, E. Leon (AIAA J, TN; see Hillard, Mervin E., Jr.)
- Mowlem, A. Robin and Smith, Russell A. Analysis of compressible turbulent flow over a yawed cone. (AIAA J, SYN) 1171
- Moya, F. (AIAA J; see Regnier, P. R.)
- Muhlfelder, L. (PS, V. 33; see Keigler, J. E.)
- Mukunda, H. S. and Raghunandan, B. N. Burning constant-stoichiometric ratio relation—some clarifications. (AIAA J, TN) 1429
- Mullans, R. E. (JA; see Lemley, C. E.)
- Munjal, N. L. and Parvatiyar, M. G. Ignition of hybrid rocket fuels with fuming nitric acid as oxidant. (JSR, EN) 428
- Murasaki, Toshimitsu (AIAA J, TN; see Kusumoto, Keiichi)
- Murdoch, Peter Low order observer for a linear functional of the state vector. (AIAA J, TN) 1288
- Transfer function synthesis by state vector feedback. (AIAA J, TN) 1765
- Murman, Earll M. Analysis of embedded shock waves calculated by relaxation methods. (AIAA J) 626
- Reply by author to T. C. Tai. (AIAA J, TC) 736
- Murman, Earll M. and Steinle, Frank W., Jr. Comment on "A criterion for assessing wind-tunnel wall interference at Mach 1." (JA, TC) 782
- Murphree, David L., Carter, Richard P., and Smith, Dennis R. Laser absorption and gain by Ar^+ -ion states in a supersonic expansion. (AIAA J, TN) 1732
- Murphree, David L., Taylor, Clayborne D., and McClendon, Ronald W. Mathematical modeling for the detection of fish by an airborne laser. (AIAA J) 1686
- Murphy, Andrew J. (JSR; see Wool, Mitchell R.)
- Murphy, J. D. (AIAA J, TN; see Rubesin, M. W.)
- Murphy, J. L. and Netzer, D. W. Ammonium perchlorate and ammonium perchlorate—binder sandwich combustion. (AIAA J, SYN) 13
- Murray, J. A. Chamber bleed auxiliary power unit. (JSR) 808
- Murtagh, T. B., Whitsett, C. E., Goodwin, M. A., and Greenlee, J. E. Automatic control of the Skylab Astronaut Maneuvering Research Vehicle. (JSR) 321
- Murthy, A. V. Hypersonic flow over blunted slender wedges. (JA, EN) 249
- Murthy, A. V. and Hebbar, K. S. Calculation of laminar boundary layers on continuous surfaces by Meksyn's method. (AIAA J, TN) 732
- Murthy, M. V. Krishna (JSR, EN; see Srinivasan, K.)
- Musgrove, Max D., Greene, Bruce E., Shideler, John L., and Bohon, Herman L. Advanced beaded and tubular structural panels. (JA) 68
- Myers, M. K. (AIAA J; see Zahalak, G. I.)
- Na, T. Y. Comment on "unsteady boundary-layer flow of power law fluids." (AIAA J, TC) 1775
- Nadaud, L. (JSR; see Barrere, M.)
- Nagy, Arthur E. (JA; see Balser, Martin)
- Nagy, A. F. (AIAA J, TN; see Stolarski, R. S.)
- Nakamura, Takashi and Riedmuller, Wolfgang Stability of nonequilibrium MHD plasma in the regime of fully ionized seed. (AIAA J) 661
- Nakamura, Yoshiya (JA; see Azuma, Akira)
- Nakanishi, S. and Finke, R. C. 9700-hour durability test of a five centimeter diameter ion thruster. (JSR) 560
- Nakayama, A. and Patel, V. C. Calculation of the viscous resistance of bodies of revolution. (JH) 154
- Narayanaswami, R. Dependence of plate-bending finite element deflections and eigenvalues on Poisson's ratio. (AIAA J, TN) 1420
- New triangular plate-bending finite element with transverse shear flexibility. (AIAA J, TN) 1761
- Narayanaswami, R. and Adelman, H. M. Inclusion of transverse shear deformation in finite element displacement formulations. (AIAA J, TN) 1613
- Nardo, C. T. (AIAA J; see Clark, K. J.)
- Nash, John F. (AIAA J; see Singleton, Robert E.)
- Nath, G. Reply by author to W. J. Franks. (AIAA J, TC) 1456
- Nathanson, D. (PS, V. 35; see Vachon, W. A.)
- Nayfeh, Ali H. (JH; see Mook, Dean T.)
- Nayfeh, Ali H., Mook, Dean T., and Lobitz, Donald W. Numerical-perturbation method for the nonlinear analysis of structural vibrations. (AIAA J) 1222
- Nayfeh, Ali H., Mook, Dean T., and Marshall, Larry R. Perturbation-energy approach for the development of the nonlinear equations of ship motion. (JH) 130
- Nayfeh, Ali H., Sun, John, and Telonis, Demetri P. Effect of bulk-reacting liners on wave propagation in ducts. (AIAA J) 838
- Nayfeh, Ali H. (JH; see Mook, Dean T.)
- Nebolsine, P. E. (AIAA J; see Pirri, A. N.)
- Needleman, A. Axisymmetric buckling of elastic-plastic annular plates. (AIAA J, TN) 1594
- Neemeh, Rafik A. (AIAA J; see Wu, James H. T.)
- Neer, J. T. INTELSAT IV nutation dynamics. (PS, V. 33) 57
- Neham, E. A. (PS, V. 32; see Henry, V. F.)
- Nelms, Walter P. (A/ A, Sept.; see Gregory, Thomas J.)
- Nelson, Paul, Jr. (AIAA J, TC; see Denman, E. D.)
- Netzer, D. W. (AIAA J, SYN; see Murphy, J. L.)
- Neulieb, Robert L. (JA; see Simpkins, Darrell)
- Newman, J. A. (AIAA J; see Wong, J. K. S.)
- Newman, M. (JA; see Pines, S.)
- Newman, P. A. (JA, EN; see Klunker, E. B.)
- Nguyen, Phung K. Comments on "Analytical design of optimal nutation dampers." (JSR, TC) 606
- Niblock, G. A., Reeder, J. C., and Huneidi, F. Four space shuttle wing leading edge concepts. (JSR) 314
- Nicholls, J. A. (AIAA J; see Fry, R. S.)
- Nickelson, R. L. (PS, V. 32; see Kale, P. P.)
- Nicolet, William E. (JSR; see Peterson, David L.)
- Nichols, M. A. and Hedrick, J. Karl Minimum time and minimum fuel flight path sensitivity. (JA) 320
- Nidey, Russell A. Optimal scan of the sky from a rocket. (AIAA J, TN) 1162
- Nieberding, W. C. and Englund, D. R., Jr. Modularized instrument system for turbojet engine test facilities. (PS, V. 34) 205
- Nieberdin, William C. (PS, V. 34; see Lesco, Daniel J.)
- Niedzwiecki, Richard W. and Jones, Robert E. Pollution measurements of a swirl-can combustor. (AIAA J) 844
- Niehoff, John C. and Friedlander, Alan L. Comparison of advanced propulsion capabilities for future planetary missions. (JSR) 566
- Nielsen, Jack N. (AIAA J, SYN; see Kuhn, Gary D.)
- Nielsen, P. E. (AIAA J; see Jackson, J. P.)
- Niioka, Takashi and Mitani, Tohru Independent region of acceleration in solid propellant combustion. (AIAA J, TN) 1759
- Nilson, R. H. and Tsuei, Y. G. Film cooling by oblique slot injection. (AIAA J, TN) 727
- Nisbet, James W. (A/ A, January; see Jones, Robert T.)
- Nixon, D. Transonic flow around symmetric aerofoils at zero incidence. (JA, EN) 122
- Noggle, R. C. (JSR; see Krider, E. P.)
- Noji, T. T. (PS, V. 32; see Sielman, P. F.)
- Noll, Richard B. and McElroy, Michael B. Engineering models of the Venus atmosphere. (JSR) 21
- Nolte, E. P., Stearman, R. O., and Russell, P. E. Simple active aerodynamic suspension systems for high-speed ground vehicles. (JA) 690
- Norris, P. Accuracy of orbit determination from ionospherically corrupted tracking data. (JSR, EN) 794
- Nowell, A. R. M. Some response characteristics of parabolic hot films in water. (JH, EN) 169
- Nunamaker, Robert R. (JSR; see Dyer, John W.)
- Nybakken, G. H. (JA; see Clark, S. K.)
- Oates, G. C. (PS, V. 34; see Grande, E.)
- Oberkampf, William L. and Watson, Leon E., Jr. Incompressible potential flow solutions for arbitrary bodies of revolution. (AIAA J, TN) 409
- O'Connell, R. F. Incremented flutter analysis. (JA) 236
- Oden, J. T., Akay, H., and Johnson, C. P. Reply by authors to R. D. Cook. (AIAA J, TC) 1290
- Oh, Youn H. Calculation of compressible turbulent free shear layers. (AIAA J, TN) 401
- O'Hare, J. E. (PS, V. 34; see Trolinger, J. D.)
- Ohlemiller, T. J. (AIAA J; see Kubota, N.)
- Ohtokay, Hiroshi (JSR; see Jerath, Navin)
- Ojalvo, I. U. Improved thermal stress determination by finite element methods. (AIAA J, TN) 1131
- O'Keefe, J. D. (AIAA J; see Johnson, R. L.)
- Okurounmu, Olufemi and McCune, James E. Lifting surface theory of axial compressor blade rows: Part I—Subsonic compressor. (AIAA J) 1363

- and McCune, James E. Lifting surface theory of axial compressor blade rows: Part II—Transonic compressor. (AIAA J) 1372
- Oliver, D. A. (AIAA J; see Argyropoulos, G. S.)
- Ollendorf, S. (PS, V. 35; see Harwell, W.)
- Olmsted, G. S. (AIAA J, TN; see Ericsson, L. E.)
- Olstad, Walter B. A thick-thin approximation for radiative transfer. (PS, V. 35) 75
- Planetary entry aerothermodynamics. Part I. Technology requirements and experimental facilities. (A/ A, Nov.) 58
- Planetary entry aerothermodynamics. Part II. Computational analysis and flight experience. (A/ A, Dec.) 55
- Ondrasik, V. J. (JSR; see Ransford, G. A.)
- Onufry, M. (PS, V. 33; see Suyderhoud, H. G.)
- Oppenheim, Antoni, K. and Weinberg, Felix J. Combustion R&D—Key to our energy future. (A/ A, Nov.) 22
- Orbock, D. (A/ A, July-August; see Sheffield, R. W.)
- Orlin, Peter A. and Cutchins, Malcolm A. Optimum vibration isolation system design using linear programming. (AIAA J) 1517
- Orloff, K. L. (AIAA J, TN; see Ciffone, D. L.)
- Orloff, Kenneth L. Trailing vortex wind-tunnel diagnostics with a laser velocimeter. (JA) 477
- Orloff, K. L. and Ciffone, D. L. Vortex measurements behind a swept wing transport model. (JA, EN) 362
- Orth, R. C., Billig, F. S., and Grenleski, S. E. Measurement techniques for supersonic combustion testing. (PS, V. 34) 263
- Orville, R. E. (JSR; see Krider, E. P.)
- Osgerby, I. T. Literature review of turbine combustor modeling and emissions. (AIAA J, SA) 743
- Vibrational nonequilibrium in a high temperature turbojet engine. (JA, EN) 302
- Ostrowski, P. Perry (AIAA J; see Wu, James H. T.)
- Ostwald, L. T. (JSR; see Follett, W. H.)
- Ottermann, Bernard and Levine, Andrew S. Analysis of gas-solid particle flows in shock tubes. (AIAA J, SYN) 579
- Otto, H. Calculation of nonlinear lift and pitching moment coefficients for slender wing-body combinations. (JA, EN) 489
- Overmeir, D. K. (AIAA J, TN; see Forrestal, M. J.)
- Owen, F. K. (AIAA J, TN; see Horstman, C. E.)
- Padovan, Joseph Solution for inplane and bending fields of tapered anisotropic conical shells. (AIAA J, TN) 101
- Static solution of monoclinic laminated circular plates. (AIAA J, TN) 862
- Generalized Sturm-Liouville procedure for composite domain anisotropic transient conduction problems. (AIAA J, TN) 1158
- Orthogonality procedure for forced response of multispan beams. (AIAA J, TN) 1599
- Padovan, Joseph and Gosset, Bernard Static fields of curved generally laminated anisotropic plate strips. (AIAA J, SYN) 737
- Palmer, John A. Air Force concepts for RVP application. (A/ A, Oct.) 52
- Pan, Y. S. and Sotomayer, W. A. Sonic boom of hypersonic vehicles. (AIAA J, ERR) 416
- Pande, K. C., Davies, M. S., and Modi, V. J. Time-optimal pitch control of satellites using solar radiation pressure. (JSR, EN) 601
- Pande, K. C. (JSR; see Modi, V. J.)
- Panico, V. D. (JA, EN; see James, R. M.)
- Paparozi, Frank A. and Anderson, Neal T. DOD's space test program. (A/ A, June) 42
- Parameswaran, V. and Alpay, S. A. Normal impingement of jets. (JA, EN) 189
- Parker, A. G. Use of slotted walls to reduce wind-tunnel boundary corrections in subsonic flow. (AIAA J, TN) 1771
- Parker, A. G. and Bicknell, J. Some measurements on dynamic stall. (JA) 371
- Parsons, Jerome S., Goodson, Raymond E., and Goldschmied, Fabio R. Shaping of axisymmetric bodies for minimum drag in incompressible flow. (JH) 100
- Parthan, S. and Johns, D. J. Vibration and flutter of stringer-stiffened cylindrical shells. (JSR) 579
- Parthasarathy, S. P. Evaluation of jet noise sources by cross-correlation of far field microphone signals. (AIAA J) 583
- Parvatiyar, M. G. (JSR, EN; see Munjal, N. L.)
- Pastrick, Harold L., York, Randy J., and Jolly, Alexander C. System performance prediction by modeling test data in digital simulations. (JSR, SYN) 133
- Pate, S. R. Comparison of NASA helium tunnel transition data with noise-transition correlation. (AIAA J, TC) 1615
- Pate, S. R., Siler, L. G., Stallings, D. W., and Wagner, D. A. Development of an MHD-augmented, high enthalpy, shock tunnel facility. (AIAA J) 289
- Patel, V. C. (JH; see Nakayama, A.)
- Patha, John T. and Woodcock, Gordon R. Feasibility of large-scale orbital solar/ thermal power generation. (JSR) 409
- Payet, G. (PS, V. 32; see Hiergeist, F.)
- Payne, Peter R. Coupled pitch and heave porpoising instability in hydrodynamic planning. (JH) 58
- Comment on "The lift force due to von Karman's vortex wake." (JH, TC) 121
- Pearce, Blaine E. An approximate distribution of particle mass flux in a high altitude solid propellant rocket plume. (AIAA J, TN) 718
- Pearson, B. Douglas, Jr. (PS, V. 35; see Millard, John P.)
- Pejsa, Arthur J. Optimum skewed redundant inertial navigators. (AIAA J) 899
- Peng, W. Y. (AIAA J, SYN; see Vincent, T. L.)
- Pennington, James H. (A/ A, Oct.; see Bryan, Curtis V.)
- Peralta, Bernal (JA; see Richardson, Ryden L.)
- Perdreauville, Farrell J. (JSR; see Womack, William C.)
- Perkins, Richard W. (AIAA J, TN; see Mann, Ronald L.)
- Peters, Norbert Surface heat transfer in the flow of dissociated nitrogen. (AIAA J, TN) 1747
- Peterson, David L. and Nicolet, William E. Heat shielding for Venus entry probes. (JSR) 382
- Philip, C. M. (JSR; see Fearn, D. G.)
- Phillip, C. M. and Fearn, D. G. Recent hollow cathode investigations at the Royal Aircraft Establishment. (AIAA J) 1319
- Phillips, Robert W. and Kryvoruka, John K. Closed-loop flight vehicle qualification testing. (JSR, SYN) 355
- Phillips, Samuel C. More national security from the defense dollar: Project ACE. (A/ A, Dec.) 44
- Pian, T. H. H. Nonlinear creep analysis by assumed stress finite element methods. (AIAA J, TN) 1756
- Pickering, W. H. Proposal: For an International Solar System Decade. (A/ A, Sept.) 22
- Pike, Jack Moments and forces on general convex bodies in hypersonic flow. (AIAA J) 1241
- Pilkey, Walter D. and Wang, Bo Ping Limiting performance of ground transportation vehicles subject to transient loading. (AIAA J, SYN) 1011
- Pimenta, Marcos and Moffat, Robert J. Stability of flow through porous plates: Coalescent jets effect. (AIAA J, TN) 1438
- Pinckney, S. Z. An improved static probe design. (AIAA J, TN) 562
- Pindzola, Michael Ground testing and simulation—An overview: Part IV: Propulsion testing. (A/ A, July-August) 63
- Pines, S. and Newman, M. Constrained structural optimization for aeroelastic requirements. (JA) 313
- Pirri, A. N., Monsler, M. J., and Nebolsine, P. E. Propulsion by absorption of laser radiation. (AIAA J) 1254
- Pitkins, Edward T. (JA; see Presz, Walter M., Jr.)
- Pitts, W. C. (JSR; see Vorreiter, J. W.)
- Plaetschke, Ermin (JA, EN; see Henschel, Frohmut)
- Pleasant, James E. Parachute mortar design. (JSR) 246
- Plett, E. G. (AIAA J; see Abdelhamid, A. N.)
- Plotkin, Allen Laminar boundary-layer induced wave forces on a submerged flat-plate hydrofoil. (JH) 47
- The symmetric far wake behind a cylinder beneath the free surface. (JH, EN) 41
- Plucinsky, J. C. (JA; see Eatock, H. C.)
- Podrarczyk, E. and Kiesling, J. D. INTELSAT V system concepts and technology. (PS, V. 32) 31
- Poirier, J. L. (JSR; see Hayes, D. T.)
- Polak, A. Numerical study of supersonic turbulent boundary layer over a small protuberance. (AIAA J, TN) 1409
- Polhamus, E. C., Kilgore, R. A., Adcock, J. B., and Ray, E. J. The Langley cryogenic high Reynolds number wind-tunnel program. (A/ A, Oct.) 30
- Polhemus, C. E. (JSR; see Tewell, J. R.)
- Pollack, Frank G. Advances in measuring techniques for turbine cooling test rigs: Status report. (PS, V. 34) 371
- Pollard, Ben M. Aerodynamics Hanoi Hilton style. (A/ A, Sept.) 71
- Poole, Lamont R. and Whitesides, John L. Suspension-line wave motion during the lines-first parachute unfurling process. (AIAA J) 38
- Portnoy, H. (AIAA J; see Cohen, M. J.)
- Postula, Frank D. (JSR, SYN; see Bradshaw, George B.)
- Potter, J. Leith Boundary-layer transition on cones near Mach one. (AIAA J, TN) 570
- Powers, William F. (JSR; see Jacobson, Robert A.)
- Prabhu, M. S. S. and Durvasula, S. Postbuckling behavior of clamped skew plates. (AIAA J, TN) 1423
- Prasad, Anant and Agrawal, H. C. Biot's variational principle for aerodynamic ablation of melting solids. (AIAA J, TN) 250

- Prasad, B. (AIAA J; see Radhamohan, S. K.)
- Presz, Walter M., Jr. and Pitkin, Edward T. Flow separation over axisymmetric afterbody models. (JA) 677
- Price, C. F. (JSR, EN; see Messner, A. M.)
- Pringle, Ralph, Jr. Effect of perturbed orbital motion on a spinning symmetrical satellite. (JSR) 451
- Prins, Dougal W. S. (A/ A, Sept.; see Colby, Starr J.)
- Pritchard, E. Brian, Harrison, Edwin F., and Moore, Jesse W. Options for Mars exploration. (A/ A, February) 46
- Probst, E. P. and Hillberry, B. M. Fatigue crack delay and arrest due to single peak tensile overloads. (AIAA J) 330
- Prussing, John E. (AIAA J; see Gross, Larry R.)
- Przemieniecki, J. S. Reply by author to W. H. Wittrick. (AIAA J, TC) 124
- Putz, Kurt E. (JSR; see Cooper, Larry)
- Quantock, Charles W. (PS, V. 32; see Waltz, Donald M.)
- Quinn, B. (JA; see Campbell, D. R.)
- Raab, Bernard (JSR, SYN; see Frey, Elmer J.)
- Radhamohan, S. K. (AIAA J, TN; see Rao, G. Venkateswara)
- Radhamohan, S. K. and Prasad, B. Asymmetric buckling of toroidal shells under axial tension. (AIAA J) 511
- Radley, Roger J., Jr. (AIAA J; see Havener, Albert G.)
- Raeder, J. (AIAA J, TN; see Daily, J. W.)
- Ragan, Ralph R. Report. (JSR, E) 1
- Raghunandan, B. N. (AIAA J, TN; see Mukunda, H. S.)
- Raghunathan, S. (AIAA J, TN; see Bergstrom, E. R.)
- Ragsdale, W. C. (PS, V. 34; see Spring, W. C., III)
- Raju, I. S. (AIAA J, TN; see Rao, G. Venkateswara)
- Rakich, J. V. (AIAA J, SYN; see Tannehill, J. C.)
- Ramachandra, S. M. (JA, EN; see Bera, Rajendra K.)
- Ramaiah, G. K. and Vijayakumar, K. Buckling of polar orthotropic annular plates under uniform internal pressure. (AIAA J) 1045
- Ramsden, Philip (JSR, EN; see Usiak, Leonard)
- Randall, Roger R. (A/ A, July-August; see Van Allen, James A.)
- Ransford, G. A., Hildebrand, C. E., and Ondrasik, V. J. Orbit determination capability analysis for the Mariner-Jupiter-Saturn 1977 mission. (JSR) 658
- Rao, B. V. A. (JSR, SYN; see Bhat, B. Rama)
- Rao, G. N. V. Comment on "Mean velocity profile of a thick turbulent boundary layer along a circular cylinder." (AIAA J, TC) 574
- Rao, G. Venkateswara, Radhamohan, S. K., and Raju, I. S. Reinvestigation of buckling of shells of revolution by a refined finite element. (AIAA J, TN) 100
- Rao, Prabhakara P. Inviscid supersonic far wake flow past pointed bodies. (AIAA J, SYN) 421
- Rao, Prabhakara P. and Lefferdo, James M. Time-saving asymptotic solution for sphere-cones in hypersonic flow. (AIAA J, TN) 386
- Rao, V. Seshagiri (JSR, EN; see Srinivasan, K.)
- Rao, Y. V. K. Sadasiva and Sinha, P. K. Vibrations of sandwich plates under uniaxial compression. (AIAA J, TN) 1282
- Rapuno, R. A. and Shimasaki, N. Synchronization of Earth stations to satellite-switched sequences. (PS, V. 33) 411
- Raseman, Chad J. (JSR; see Ludewig, Hans)
- Rasmussen, Maurice L. (AIAA J, TN; see Fiorino, Thomas D.)
- Rasool, S. I. (A/ A, Sept.; see Beckman, J. C.)
- Rastogi, R. P. and Deepak, Desh Char formation in ablative. (AIAA J, TN) 114
- Rastogi, R. P., Kishore, K., and Chaturvedi, B. K. Heterogeneous combustion studies on polystyrene and oxygen styrene copolymer. (AIAA J) 1187
- Rastogi, R. P., Kishore, K., and Singh, Gurdip Combustion of polystyrene and oxygen-styrene copolymer/ ammonium perchlorate propellants. (AIAA J, SYN) 9
- Rastogi, R. P., Singh, H. J., and Kishore, K. Studies on mixed fuels—hydrazine and ethyl alcohol system. (AIAA J, TN) 227
- Rathi, Jaipal S. (AIAA J, TN; see Hall, J. Gordon)
- Ray, A. M. (JSR; see Tewell, J. R.)
- Ray, Edward J. (JA; see Kilgore, Robert A.)
- (A/ A, Oct.; see Polhamus, E. C.)
- Rebont, Jean (AIAA J, TN; see Maresca, Christian)
- Reda, Daniel C. Comment on "Calculation of turbulent boundary-layer shock-wave interaction." (AIAA J, TC) 1291
- Redd, L. T., Gilman, J., Jr., Cooley, D. E., and Severt, F. D. Wind-tunnel investigation of a B-52 model flutter suppression system. (JA) 659
- Redall, Walter F., III Reply by author to I. Beckwith (AIAA J, TC) 1616
- Reddy, K. R. Unsteady vortex flow past an inflating, decelerating wedge. (JA, EN) 427
- Reddy, R. S. (AIAA J, TN; see Weston, Kenneth C.)
- Rediess, Herman A. (JA; see Johnson, Walter A.)
- Redman, M. C. (JA; see Rowe, W. S.)
- Reed, R. Dale RPRVs: The first and future flights. (A/ A, April) 26
- Reeder, J. C. (JSR; see Niblock, G. A.)
- Reedy, Gary K. (JSR; see Strand, Leon D.)
- Reese, Charles D. and Bert, Charles W. Buckling of orthotropic sandwich cylinders under axial compression and bending. (JA) 207
- Reeves, Barry L. Two-layer model of turbulent boundary layers. (AIAA J) 932
- Regnier, P. R., Moya, F., and Taran, J. P. E. Gas concentration measurement by coherent Raman anti-Stokes scattering. (AIAA J) 826
- Rehfield, L. W. Nonlinear flexural oscillations of shallow arches. (AIAA J, TN) 91
- Large amplitude forced vibrations of elastic structures. (AIAA J, TN) 388
- Rehfield, L. W., Giri, J., and Sparrow, C. A. Edge restraint effect on vibration of curved panels. (AIAA J, TN) 239
- Reidel, B. (PS, V. 33; see Eckhardt, G.)
- Reinecke, W. G. Debris shielding during high-speed erosion. (AIAA J, TN) 1592
- Reinhardt, Thomas F. (JSR; see Shorr, Morton)
- Reshotko, Meyer, Goodykoontz, Jack H., and Dorsch, Robert G. Engine-over-the-wing noise research. (JA, SYN) 195
- Reukauf, Paul J. (JA; see Webb, William L.)
- Rex, D. and Kohncke, B. Redundant configuration of electric propulsion systems for stationkeeping. (JSR) 488
- Reynolds, Philip A. Ground testing and simulation—An overview: Part III: Flight simulation. (A/ A, July-August) 58
- Rich, Ben R. F-12 series aircraft aerodynamic and thermodynamic design in retrospect. (JA) 401
- Richardson, Ryden L. and Peralta, Bernal Refining of turbine fuels by modern hydrotreating. (JA) 771
- Richie, Christine B. (JA, EN; see Jones, Robert A.)
- Ricks, Brad L. (JH; see Hanks, Richard W.)
- Ridihalgh, John L. (JSR; see Eggers, Philip E.)
- Riedmuller, Wolfgang (AIAA J; see Nakamura, Takashi)
- Rindal, Roald A. (JSR; see Wool, Mitchell R.)
- Rinker, George C. (JSR; see Jacobson, Robert A.)
- Robben, Frank (AIAA J; see Becker, Manfred)
- Robbins, B. and Lakshminarayana, B. Effect of inlet turbulence on compressor noise. (JA) 273
- Roberts, B. W. Aerodynamic inflation of shell type, parachute structures. (JA) 390
- Axisymmetric, self-excited oscillations in parachutes. (JA) 736
- Roberts, C. C., Jr. and Feldman, K. T., Jr. A probabilistic approach to the design of heat pipes. (PS, V. 35) 371
- Roberts, J. B. Probability of first passage failure for stationary random vibration. (AIAA J) 1636
- Robertson, J. M. (AIAA J, TN; see Evbuoma, S. N.)
- Robertson, S. R. (AIAA J; see Brunelle, E. J.)
- Robinson, C. E. (JA; see German, R. C.)
- Robinson, Lawrence Baylor and Yang, Tien Tsai Inverse relationships in equilibrium statistical thermodynamics. (AIAA J, TN) 1433
- Rodden, J. J. (JSR; see Lebsock, K. L.)
- Rodden, William P., Giesing, Joseph P., Kalman, Terez P., and Rowan, Jack C. Comment on "A finite-element method for calculating aerodynamic coefficients of a subsonic airplane." (JA, TC) 366
- Rodkiewicz, Czeslaw M. Hypersonic flow with viscous interaction over a sharp slender wedge. (AIAA J, SYN) 7
- Rogers, David F. Further comments on "Local nonsimilarity boundary-layer solutions." (AIAA J, TC) 1007
- Rogers, Kenneth H. Boundary-layer theory for pressure and drag of a wavy surface. (JA) 382
- Rogers, R. C. and Eggers, J. M. Supersonic combustion of hydrogen injected perpendicular to a ducted vitiated airstream. (AIAA J, SYN) 1621
- Rohy, David A. (PS, V. 34; see Van Roberts, J.)
- Rom, J. (JA; see Braha, J.)
- Roper, Alan T. and Gentry, Carl L. Growth of turbulent boundary layers over nonstationary boundaries. (AIAA J, TN) 95
- Rosciszewski, J. J. and Yeh, T. T. Establishment of quasi-steady conditions in a blow-down nonequilibrium MHD generator. (AIAA J) 1021
- Rose, P. G. (AIAA J; see Rowlands, R. E.)
- Rose, William C. Turbulence measurements in a compressible boundary layer. (AIAA J) 1060
- (AIAA J, TN; see Rubesin, M. W.)
- Rosen, Aviv and Singer, Josef Effect of axisymmetric imperfections on

- the vibrations of cylindrical shells under axial compression. (AIAA J, TN) 995
- Rosen, Gerald Manufacture and deflagration of an atomic hydrogen propellant. (AIAA J) 1325
- Rosen, J. M. and Gregor, R. Jet engine soot emission measured at altitude. (JA, EN) 243
- Rosen, S. G. (JSR; see Huberman, M. N.)
- Rosenberg, N. W., Good, R. E., Vickery, W. K., and Dewan, E. M. Experimental investigation of small scale transport mechanisms in the stratosphere. (AIAA J) 1094
- Rosenthal, L. A. and Menichelli, V. J. Thermal coupling measurement method. (JSR) 282
- Roskam, Jan and Henry, Samuel Synthesis of a separate surface wing leveler. (JA, SYN) 657
- Ross, R. Boundary-layer transition on the same model in two supersonic wind tunnels. (AIAA J, TN) 992
- Rosshach, Dennis R. (PS, V. 34; see Couch, Robert P.)
- Roth, R. S. (AIAA J; see Shian, A. C.)
- Rothwell, W. S. and Schick, H. L. Emission spectra from a stream of cooling particles. (JSR, EN) 597
- Rouklove, P. Performance testing of a transit generator at JPL. (JSR, EN) 434
- Roux, J. A. and Smith, A. M. Comparison of three techniques for solving the radiative transport equations. (PS, V. 35) 3
- and Smith, A. M. Radiative transport analysis for plane with isotropic scattering and arbitrary temperature. (AIAA J) 1273
- Roux, J. A., Smith, A. M., and Shahrokhi, F. Effect of boundary conditions on the radiative reflectance of dielectric coatings. (PS, V. 35) 131
- Rowan, Jack C. (JA, TC; see Rodden, William P.)
- Rowe, W. S., Winther, B. A., and Redman, M. C. Unsteady subsonic aerodynamic loadings caused by control surface motions. (JA) 45
- Rowlands, R. E., Liber, T., Daniel, I. M., and Rose, P. G. Stress analysis of anisotropic laminated plates. (AIAA J) 903
- Roy, Sreedhan Reply by author to T. Y. Na. (AIAA J, TC) 1775
- Rubesin, M. W., Murphy, J. D., and Rose, W. C. Wall shear in strongly retarded and separated compressible turbulent boundary layers. (AIAA J, TN) 1442
- Rubin, S. G. (AIAA J; see Lin, T. C.)
- Rudey, C. J. (JSR; see DeBrock, S. C.)
- Rudinger, George Experimental investigation of gas injection through a transverse slot into a subsonic cross flow. (AIAA J, TN) 566
- Penetration of particles injected into a constant cross flow. (AIAA J, TN) 1138
- Rudisill, Carl S. Derivatives of eigenvalues and eigenvectors for a general matrix. (AIAA J, TN) 721
- Rudy, David H. and Birch, Stanley F. Mean flow development and surface heating for an attaching compressible free shear layer. (JSR, EN) 348
- Ruo, S. Y. (AIAA J; see Kimble, K. R.)
- Ruo, S. Y., Yates, E. Carson, Jr., and Theisen, J. G. Calculation of unsteady transonic aerodynamics for oscillating wings with thickness. (JA) 601
- Rupp, H. (PS, V. 33; see Eckhardt, G.)
- Ruppe, Harry O. Helios/ the sungrazer. (A/ A, June) 62
- Following the trail blazed by Helios. (A/ A, July-August) 53
- Russell, P. E. (JA; see Nolte, E. P.)
- Saad, Michel A. and Goldwasser, Samuel R. Time-temperature simulation in low-pressure ignition of hypergolic liquids. (AIAA J, SYN) 11
- Saaski, E. W. Gas occlusions in arterial heat pipes. (PS, V. 35) 353
- Sabaghian, M. and Eslami, M. R. Creep relaxation of nonaxisymmetric thermal stresses in thick walled cylinders. (AIAA J) 1652
- Sachs, Gottfried Stability limits for downsprings. (JA, EN) 710
- Saeed, Ifikhar and Stuiwer, Willem Periodic boom forces in dumbbell-type satellites moving in a circular orbit. (AIAA J, SYN) 423
- Safarik, R. R. (AIAA J, TN; see Kirchhoff, R. H.)
- Saffman, P. G. and Wilcox, D. C. Turbulence-Model predictions for turbulent boundary layers. (AIAA J) 541
- Saffren, Melvin M. (A/ A, July-August; see Wang, Taylor G.)
- Sagartz, Mathias J. Response of a three-layered ring to an axisymmetric impulse. (AIAA J, TN) 390
- Saintsbury, J. A. (JA; see Eatock, H. C.)
- Saito, Haruo (AIAA J; see Tsuchiya, Kazuo)
- Sajben, M. An integral theory for inviscid, rotational flow in variable area ducts. (AIAA J, TN) 378
- Salkeld, Robert Single-stage shuttles for ground launch and air launch. (A/ A, March) 52
- Sallet, D. W. Reply by author to P. R. Payne. (JH, TC) 123
- Salomon, M. (JA; see Braha, J.)
- Salzman, P. K. and Duncan, T. C. Prediction of the critical diameter of composite propellants. (AIAA J) 985
- Samin, J. -C. (AIAA J; see Boland, P.)
- Sandell, N. R., Jr. (AIAA J; see Scharmack, D. K.)
- Sanders, Robert OMEGA—Past, present, and future. (A/ A, April) 50
- Sanderson, Richard B. (PS, V. 35; see Thompson, Samuel B.)
- Sandhu, G. S. Rigid body mode pointing accuracy and stability criteria for an orbiting spacecraft. (JSR, EN) 599
- Sandman, B. E. and Kelly, J. G. Systems identification: Application to underwater vehicle dynamics. (JH) 94
- Sandri, R. (AIAA J; see Wong, J. K. S.)
- Sanjurjo, Liber (JA; see Dat, Jacques)
- San Miguel, Anthony Design of missile-aircraft component white noise isolators. (JA) 704
- Sanscrainte, W. (JSR; see Chazen, M. L.)
- Santman, Don M. (JA; see Glasgow, Edsel R.)
- Saradhy, Y. P. (AIAA J, TN; see Dhameja, R. K.)
- Sarles, F. W., Jr. (PS, V. 32; see Kale, P. P.)
- Sarpkaya, Turgut Effect of the adverse pressure gradient on vortex breakdown. (AIAA J) 602
- Savet, Paul H. (JSR, EN; see Cohen, Victor D.)
- Sawyer, James Wayne (JA; see Shyprikevich, Peter)
- Sayer, L. H. (JSR; see Mihlfeith, C. M.)
- Scaccia, Carl and Kennedy, Lawrence A. Calculating two-dimensional chemically reacting flows. (AIAA J) 1268
- Schadow, K. (AIAA J; see Abbott, S. W.)
- Scharmack, D. K. and Sandell, N. R., Jr. Generalized quasi-linearization method. (AIAA J) 1236
- Schenk, Frederick L. (JA; see McMaster, John R.)
- Scher, M. P. and Farrenkopf, R. L. Dynamic trap states of dual-spin spacecraft. (AIAA J) 1721
- Schexnayder, Charles J., Jr. (JSR; see Evans, John S.)
- Schexnayder, C. J., Jr. and Evans, J. S. Influence of ablation impurities on blunt body re-entry ionization. (AIAA J) 805
- Schick, H. L. (JSR, EN; see Rothwell, W. S.)
- Schiehlen, Werner O. Fine pointing system for large orbiting telescopes. (JSR, SYN) 273
- Schiring, Earl E. (AIAA J; see de Virgilio, Miguel A.)
- Schlack, A. O., Jr. (AIAA J, TN; see Dong, W. N.)
- Schlichting, Hermann Recent Progress in boundary-layer research. (AIAA J, 37th Wright Brothers Lecture) 427
- Schmall, Robert A. and Kinney, Robert B. Numerical study of unsteady viscous flow past a lifting plate. (AIAA J) 1566
- Schmars, W. T. (JSR; see Cooper, G. L.)
- Schmidt, Robert (AIAA J, TN; see DaDeppo, Donald A.)
- Schmit, L. A., Jr. and Farshi, B. Some approximation concepts for structural synthesis. (AIAA J) 692
- Schmitt, George F., Jr. On the dependence of materials erosion on environmental parameters at supersonic velocities. (JA, ERR) 192
- Schmitt, R. J., Linford, R. M. F., Dillow, C. F. and Hughes, T. A. Infrared properties of reusable surface insulations. (PS, V. 35) 183
- Schmitz, Peter D. and McManus, Neil P. Average structural response to locally stationary random excitation. (AIAA J, TN) 229
- Schneider, G. E. and Yovanovich, M. M. Correlation of the over-all thermal resistance of metallic O-rings contacting two cylinders. (JSR, EN) 206
- Schnurr, N. M. and Cothran, C. A. Radiation from an array of gray circular fins of trapezoidal profile. (AIAA J) 1476
- Schock, Alfred (JSR, SYN; see Frey, Elmer J.)
- Schroeder, K. G. Characteristics and applications of multibeam spacecraft antennas. (PS, V. 33) 503
- Schueler, C. J. (AIAA J, SYN; see Starr, R. F.)
- Schulz, R. J. and Bauer, R. C. Rocket plume testing in ground test facilities. (JSR) 16
- Schulze, Hans-Kurt (JA, EN; see Henschel, Frohmüt)
- Schultz, August L. (JSR; see Strand, Leon D.)
- Schultz, Robert L. Fuel optimality of cruise. (JA, EN) 586
- Schumacher, G. A. (PS, V. 34; see Farr, A. P.)
- Schuster, John R. (JSR; see Ward, Theodore E.)
- Schuster, John R., Glickman, Roger A., and Hender, Douglas R. Transpiration nosetip coolant flow control. (JSR) 152
- Schutz, Bob E. Analytical approach to orbit determination in the presence of model errors. (AIAA J) 298
- Schutz, B. E., McMillan, J. D., and Tapley, B. D. Comparison of statistical orbit determination methods. (AIAA J, SYN) 1465
- Schwartz, L. (PS, V. 32; see Sielman, P. F.)
- Schwartz, Sidney H. (JSR; see Lovrich, Thomas M.)
- Schwendland, Ronald P. and Hall, Morris F. Instrumenting a stoichiometric turbine development engine. (PS, V. 34) 387
- Schweikhard, William G. and Montoya, Earl J. Research in-

- strumentation requirements for flight/ wind-tunnel tests of the YF-12 propulsion system and related flight experience. (PS, V. 34) 19
- Schwenzfeger, Klaus J. Contribution to regularization in optimal trajectory problems. (AIAA J) 850
- Scott, David S. (AIAA J, TN; see Collier, Robert P.)
- Seals, R. K., Jr. (AIAA J; see Brockman, Philip)
- Analysis of tunable laser heterodyne radiometry: Remote sensing of atmospheric gases. (AIAA J) 1118
- Sears, W. R. On calculation of induced drag and conditions downstream of a lifting wing. (JA, EN) 191
- Seebass, A. R. and George, A. R. Design and operation of aircraft to minimize their sonic boom. (JA) 509
- Seemann, Gerald R., Harris, Gordon L., Brown, Glen J., and Cullian, Charles A. Remotely piloted mini-blimps for urban applications. (A/ A, February) 31
- Seginer, A. (JA; see Braha, J.)
- Segletes, John A. Explicit numerical method for solution of heat-transfer problems. (AIAA J, SYN) 1463
- Seidel, F. (JSR, SYN; see Liebing, L.)
- Seifert, Howard S. (JSR; see Meetin, Ronald J.)
- Seltzer, S. M. (JSR; see Kuo, B. C.)
- Serafini, John S. and Terdan, Fred F. Plasma fluctuations in a Kaufman thruster. (JSR) 752
- Serra, Raymond A. (AIAA J, SYN; see Ganz, Anthony A.)
- Sevart, F. D. (JA; see Redd, L. T.)
- Shackelford, W. L., Witte, A. B., Broadwell, J. E., Trost, J. E., and Jacobs, T. A. Experimental measurements in supersonic reacting (F+H₂) mixing layers. (AIAA J, SYN) 1009
- Shaffernocker, W. M. Current state-of-the-art for airbreathing combustor measurements. (PS, V. 34) 227
- Shahrokhii, F. (PS, V. 35; see Roux, J. A.)
- Shang, J. S. Computation of hypersonic turbulent boundary layers with heat transfer. (AIAA J, SYN) 883
- Shanks, S. P. (AIAA J; see Thompson, J. F.)
- Sharifi, P. and Yates, D. N. Nonlinear thermo-elastic-plastic and creep analysis by the finite-element method. (AIAA J) 1210
- Sharma, J. P. On Murphy's stability criterion. (JSR, EN) 432
- Sharma, S. C. (JA, EN; see Gupta, A. K.)
- Sharma, Subhash Chander and Stuiwer, Willem Boom forces in librating dumbbell-type satellites. (AIAA J, SYN) 425
- Sheffield, R. W. and Orbeck, D. Ground testing and simulation—An overview: Part V: Space simulation. (A/ A, July-August) 67
- Sheinman, Izhak and Tene, Yair Buckling in segmented shells of revolution subjected to symmetric and antisymmetric loads. (AIAA J) 15
- and Tene, Yair Reply by authors to G. A. Cohen. (AIAA J, TC) 1775
- Shelton, D. E. (JSR, EN; see Fein, H. L.)
- Sherman, P. M. and Gell, D. Variable energy blast wave measurements. (AIAA J, TN) 117
- Shiau, A. C., Roth, R. S., and Soong, T. T. Dynamic buckling of conical shells with imperfections (AIAA J) 755
- Shideler, John L. (JA; see Musgrove, Max D.)
- Shimasaki, N. (PS, V. 33; see Rapuano, R. A.)
- Shioda, Susumu and Yamasaki, Hiroyuki Suppression of ionization instability in an MHD disk generator. (AIAA J, TN) 1763
- Shorr, Morton and Reinhardt, Thomas F. Feasibility of a fluidized powder demand-mode gas generator. (JSR) 29
- Shoup, T. E. (JSR, EN; see Fletcher, L. S.)
- Shrestha, Gambhir M. Approximate method for solving boundary-layer equations. (AIAA J, TN) 382
- Shumaker, H. A. (PS, V. 33; see Herron, B. G.)
- Shyprykevich, Peter and Sawyer, James Wayne Flutter of orthotropic panels at arbitrary yaw angles—Experiment and theory. (JA) 15
- Sibley, R. K. Engine condition monitoring as a part of the propulsion management concept. (PS, V. 34) 463
- Siddiqi, Toufiq F. Parameters of technological growth: What makes an optimist? (A/ A, June) 15
- Sielman, P. F., Schwartz, L., and Noji, T. T. Multiple beam communications satellites with remote beam steering and beam shaping. (PS, V. 32) 265
- Siemers, Paul M., III (JSR; see Steinberg, Sy)
- Siler, L. G. (AIAA J; see Pate, S. R.)
- Simmons, N. The United Kingdom program of communications satellites. (PS, V. 32) 293
- Simodynes, E. E. Gradient optimization of structural weight for specified flutter speed. (JA) 143
- Simpkins, Darrell, Neulieb, Robert L., and Golden, Dennis J. Fatigue—A test integrated damage modeling approach. (JA) 563
- Simpson, J. O. (JSR; see Follett, W. H.)
- Singa-Rao, K. and Amba-Rao, C. L. Analysis of axisymmetric shells by transfer matrix method. (JSR) 829
- Singer, A. and Minkowski, J. M. Role of plasma boundary conditions in the comparison of electron plasma temperatures. (AIAA J, TN) 876
- and Minkowski, J. M. Basic limitation in microwave measurement of plasma temperature. (AIAA J, TN) 1286
- Singer, Josef (AIAA J, TN; see Rosen, Aviv)
- Singh, Anand V. (AIAA J, TN; see Mirza, Shaukat)
- Singh, G. (JSR; see Kuo, B. C.)
- Singh, Gurdip (AIAA J, SYN; see Rastogi, R. P.)
- Singh, H. J. (AIAA J, TN; see Rasotgi, R. P.)
- Singh, I. (AIAA J; see Tsou, F. K.)
- Singh, J. P. (PS, V. 32; see Morgan, R. P.)
- Singleton, H. J. Growing procedural problems of washing mammoth aircraft. (JA, EN) 587
- Singleton, Robert E. and Nash, John F. Method for calculating unsteady turbulent boundary layers in two- and three-dimensional flows. (AIAA J) 590
- Sinha, P. K. (AIAA J, TN; see Rao, Y. V. K. Sadasiva)
- Sinha, Ram Torque development on a spherical body due to spin up of the concentric spherical container. (AIAA J, TN) 404
- Skala, George F. The in-line oil monitor and its role in engine conditions monitoring. (PS, V. 34) 499
- Skifstad, J. G. (AIAA J; see Meese, R. A.)
- Slabinski, Victor J. Variation in range, range-rate, propagation time delay, and Doppler shift for a nearly geostationary satellite. (PS, V. 33) 3
- Slayman, Robert G. (JSR; see Steinberg, Sy)
- Small, L. L. and Longstreet, C. S. An ultrasonic turbine inlet gas temperature sensor. (PS, V. 34) 437
- Smith, A. M. (PS, V. 35; see Roux, J. A.)
- Smith, C. V., Jr. (AIAA J; see Smith, Donald R.)
- Smith, Dennis R. (AIAA J, TN; see Murphree, David L.)
- Smith, Donald R. and Smith, C. V., Jr. When is Hamilton's principle an extremum principle? (AIAA J) 1573
- Smith, G. Charles C. (JA, SYN; see Appa, Kari)
- Smith, Jimmie H. Thermal analysis for antenna window in AGM nosetip. (JSR, EN) 198
- Smith, Neill S., Hassan, H. A., and McInville, Roy M. Small signal gain calculations for high-flow CO discharge lasers. (AIAA J, SYN) 1619
- Smith, Raymond (AIAA J, TN; see Kaloni, Purna N.)
- Smith, Russell A. (AIAA J, SYN; see Mowlem, A. Robin)
- Smith, R. H. and Burcham, F. W., Jr. Instrumentation for in-flight determination of steady-state and dynamic inlet performance in supersonic aircraft. (PS, V. 34) 41
- Smith, T. F. and Hering, R. G. Surface roughness effects on bidirectional reflectance. (PS, V. 35) 145
- Smithey, William J. H. Value of Mach angle for a given Prandtl-Meyer angle. (AIAA J, TN) 1596
- Smoot, L. D. (AIAA J; see Abbott, S. W.)
- Snedeker, Richard S. (JA; see Donaldson, Coleman duP.)
- Snowball, H. M. Engine aids and the metrologist syndrome. (PS, V. 34) 505
- Sobieszczanski, J. (JA, SYN; see Fulton, Robert E.)
- (AIAA J, TN; see Storaasli, Olaf O.)
- Soderman, Paul T. (JA; see Hersh, Alan S.)
- Sohal, Manohar S. and Howell, John R. Thermal modeling of a plate with coupled heat-transfer modes. (PS, V. 35) 99
- Sood, Des R. and Elrod, Harold G., Jr. Numerical solution of the incompressible Navier-Stokes equations in doubly connected regions. (AIAA J) 636
- Soong, T. T. (AIAA J; see Shiau, A. C.)
- Sorenson, Norman E. and Bencze, Daniel P. Possibilities for improved supersonic inlet performance. (JA) 288
- Sotomayer, W. A. (AIAA J, ERR; see Pan, Y. S.)
- Spangenberg, George High-low mix—Solution or problem? (A/ A, Sept.) 18
- Spangler, G. E. (JA; see Levy, S. A.)
- Sparrow, C. A. (AIAA J, TN; see Rehfield, L. W.)
- Spencer, T. M. Energy-sink analysis for asymmetric dual-spin spacecraft. (JSR) 463
- (JSR; see Follett, W. H.)
- Speyer, Jason (JA, EN; see Zeldin, Saydean)
- Speyer, Jason L. and Gustafson, Donald E. Stochastic optimal control of linear dynamic systems. (AIAA J, SA) 1013
- Spring, W. C., III and Ragsdale, W. C. Investigation of the use of holography in studying supersonic flow in inlets. (PS, V. 34) 95
- Spunt, Leonard A. Programing approach to optimal structural design using structural indices. (AIAA J, TN) 865

- Srinivasan, A. V. (AIAA J; see David Thomas S.)
—(AIAA J; see Dowell, E. H.)
- Srinivasan, G. (AIAA J, TN; see Hall, J. Gordon)
- Srinivasan, K., Rao, V. Seshagiri, and Murthy, M. V. Krishna Design considerations for space chamber cryopanels. (JSR, EN) 862
- Sriramulu, A. N. (AIAA J, TN; see Baijal, S. K.)
- Staffs of Space Dept., APL, and G&C Control Lab., Stanford U. A satellite freed of all but gravitational forces: "TRIAD I." (JSR) 637
- Stahle, Clyde V. (AIAA J; see Kuhar, Edward J.)
- Stake, W. R. (AIAA J, TN; see Ericsson, L. E.)
- Stallings, D. W. (AIAA J; see Pate, S. R.)
- Starr, R. F. and Schueler, C. J. Experimental studies of a Ludweig tube high Reynolds number transonic tunnel. (AIAA J, SYN) 267
- Stauffer, John K. (JA, EN; see Der, Joe, Jr.)
- Stearman, R. (JA; see Nolte, E. P.)
—(AIAA J; see Horn, W.)
- Steenken, W. G. Effect of transducer diameter on resolution of total pressure fluctuations in a turbulent flow. (PS, V. 34) 167
- Steinle, Frank W., Jr. (JA, TC; see Murman, Earl M.)
- Stengel, Robert F. Optimal guidance for the space shuttle transition. (JSR) 173
- Stepner, David E. (JA; see Mehra, Raman K.)
- Steinberg, Sy, Siemers, Paul M., III, and Slayman, Robert G. Development of the Viking parachute configuration by wind-tunnel investigation. (JSR) 101
- Steiner, Jack Airline airplanes for the eighties—A response. (A/ A, March) 42
- Stermole, F. J. (JSR; see Bain, R. L.)
- Steven, Grant P. Stress diffusion in thick stiffened panels. (JA, EN) 779
- Stevens, Frank L. (AIAA J; see Cohen, Charles J.)
- Stine, H. A. (JSR; see Vorreiter, J. W.)
- Stolarski, R. S., Cicerone, R. J., and Nagy, A. F. Impact of space shuttle orbiter re-entry on mesospheric NO_x. (AIAA J, TN) 395
- Stollery, J. L. (AIAA J, TN; see Coleman, G. T.)
- Stone, D. R. (AIAA J, SYN; see Throckmorton, D. A.)
- Storaasli, O. (JA, SYN; see Fulton, Robert E.)
- Storaasli, Olaf O. and Sobieszcanski, Jaroslaw On the accuracy of the Taylor approximation for structure resizing. (AIAA J, TN) 231
- Strand, Leon D., Schultz, August L., and Reedy, Gary K. Microwave Doppler shift technique for determining solid propellant transient regression rates. (JSR) 75
- Straub, William L., Jr. Managerial implications of computerized aircraft design synthesis. (JA) 129
- Stuart, Richard J. and Carney, John F., III Vibration of annular plates with edge-beams. (AIAA J, SYN) 5
- Stuiver, Willem (AIAA J, SYN; see Saeed, Iftikhar)
—(AIAA J, SYN; see Sharma, Subhash Chander)
—Dynamics and configuration control of two-body satellite systems. (JSR, SYN) 545
- Sturek, Walter B. Turbulent boundary-layer shear stress distributions for compressible adverse pressure gradient flow. (AIAA J, TN) 375
- Sturman, John C. (PS, V. 34; see Lesco, Daniel J.)
- Sturrock, Peter A. UFO reports from AIAA members. (A/ A, May) 60
- Su, Y.-W. T. (AIAA J; see Craig, R. R., Jr.)
- Subramanian, N. R. (JA, EN; see Krishnamurthy, V.)
- Sullivan, Edmund, Jr. Study of wind effects on electrostatic autopilots. (JA) 221
—Reply by author to M. L. Hill and W. A. Hoppel. (JA, TC) 782
- Sullivan, Roger D. (JA; see Donaldson, Coleman duP.)
- Sullivan, Thomas E. (JA, EN; see Burnham, David C.)
- Summerfield, M. (AIAA J; see Abdelhamid, A. N.)
—(AIAA J; see Kuo, K. K.)
—(AIAA J; see Kubota, N.)
- Sun, Chen-Chih and Childs, Morris E. Flowfield analysis for successive oblique shock wave-turbulent boundary-layer interactions. (JA) 54
- Sun, C. T. and Lai, R. Y. S. Exact and approximate analyses of transient wave propagation in an anisotropic plate. (AIAA J, TN) 1415
- Sun, John (AIAA J; see Nayfeh, Ali Hasan)
- Sun, Y. S. (AIAA J; see Ueng, C. E. S.)
- Sutton, George W. Editorial. (AIAA J, E) 1
- Sutton, James G. Shuttle extra-vehicular life support equipment. (JSR, EN) 442
- Sutton, Kenneth Coupled nongray radiating flow about ablating planetary entry bodies. (AIAA J) 1099
- Suyderhoud, H. G. and Onufry, M. Performance of a digital adaptive echo canceller in a simulated satellite circuit environment. (PS, V. 33) 455
- Swales, P. D., McGregor, R. C., and Wright, A. J. Correlation of force measurements and separated flow regions on surface piercing struts. (JH, EN) 72
- Swaney, Thomas G. (AIAA J, TN; see Janssen, Terry L.)
- Swanson, D. E. and Crowe, C. T. Cylindrical wing-body configurations for space-limited applications. (JSR, EN) 60
- Swigart, Rudolph J. Cross-hatching studies—A critical review. (AIAA J, SA) 1301
- Switzky, Harold and Wang, Ping-Chun Minimum weight design of finite element structures. (AIAA J) 170
- Synofzik, R. (AIAA J, TN; see Garen, W.)
- Tabaddor, F. (JSR, EN; see Chen, C. H. S.)
- Tabakoff, W. (AIAA J, SYN; see Hamed, A.)
- Tai, Tsze Cheng Transonic inviscid flow over lifting airfoils by the method of integral relations. (AIAA J) 798
—Comment on "Analysis of embedded shock waves calculated by relaxation methods." (AIAA J, TC) 735
- Takayama, K. Laminar boundary layer behind a shock wave propagating along perforated walls. (AIAA J, TN) 1152
- Talbot, L. (AIAA J, SA; see Chung, P. M.)
- Tannehill, J. C., Mohling, R. A., and Rakich, J. V. Numerical computation of hypersonic viscous flow over a sharp leading edge. (AIAA J, SYN) 129
- Tanner, M. Comment on "The lift force due to von Karman's vortex wake." (JH, TC) 123
- Tapley, B. D. (AIAA J, SYN; see Schutz, B. E.)
- Taran, J. P. E. (AIAA J; see Regnier, P. R.)
- Tarzanin, F., Jr. (JA; see Gabel, R.)
- Tate, Atsushi (AIAA J, TN; see Inouye, Kenji)
- Tawakley, V. B. Similarity laws for missiles of minimum ballistic factor. (JSR, EN) 671
- Taylor, Allan A. and Hoffman, Joe D. Design of maximum thrust nozzles for nonequilibrium chemically reacting flow. (AIAA J, SYN) 1299
- Taylor, Clayborne D. (AIAA J; see Murphree, David L.)
- Taylor, G. Q. (JSR, EN; see Messner, A. M.)
- Taylor, J. P. (JSR, EN; see Jenkins, R. B.)
- Telionis, Demetri P. (AIAA J; see Nayfeh, Ali Hasan)
—(AIAA J; see Tsahalis, D. Th.)
- Telionis, D. P. and Tsahalis, D. T. Response of separation to impulsive changes of outer flow. (AIAA J) 614
- Tene, Yair (AIAA J; see Sheinman, Izhak)
—(AIAA J, TC; see Sheinman, Izhak)
- Teper, Gary L. (JA; see Johnson, Walter A.)
- Terdan, Fred F. (JSR; see Serafini, John S.)
- Teske, M. (AIAA J; see Lewellen, W. S.)
- Test, Frederick L. Analytical prediction of the influence of polymer additives on the shear drag of bodies of revolution. (JH, SYN) 45
- Tewell, J. R., Ray, A. M., Meirick, R. P., and Polhemus, C. E. Teleoperator visual system simulations. (JSR) 418
- Theisen, J. G. (JA; see Ruo, S. Y.)
- Theobald, Richard T. Attitude motion of a roll accelerated vehicle. (JSR, EN) 857
- Thomassen, K. I. (JSR; see Vondra, R. J.)
- Thompson, J. F., Shanks, S. P., and Wu, J. C. Numerical solution of three-dimensional Navier-Stokes equations showing trailing tip vortices. (AIAA J) 787
- Thompson, Samuel B., Arnold, Frederick, Sanderson, Richard B., and Mantz, Arlan W. Optical properties of cryodeposits on low scatter mirrors. (PS, V. 35) 229
- Thornton, C. L. and Finley, S. G. Square-root algorithm for evaluating mismodeled process noise. (JSR) 223
- Thornton, W. A. and Majumder, D. K. Reanalysis information for eigenvalues derived from a differential equation analysis formulation. (AIAA J, TN) 1749
- Throckmorton, David A. (JSR, EN; see Dunavant, James C.)
- Throckmorton, D. A. and Stone, D. R. Model wall and recovery temperature effects on experimental heat-transfer data analysis. (AIAA J, SYN) 1169
- Tien, C. L. and Cunningham, G. R. Radiation heat transfer in multilayer insulation having perforated shields. (PS, V. 35) 65
- Timmons, J. D. (JSR; see Moog, R. D.)
- Tiroshi, Igal and Elliott, Jarrell R. Explicit model following control scheme incorporating integral feedback. (JA, EN) 364
- Tischler, A. O. Lower space costs mean more space flight. (A/ A, June) 22
- Tomlinson, J. G. (JA; see Verkamp, F. J.)
- Tong, Pin Nonlinear instability of a helicopter blade in hovering. (AIAA J) 360
—(AIAA J, TN; see Mau, S. T.)
- Tong, Pin and Adachi, J. On the dynamic buckling of shells of revolution. (AIAA J, TN) 863

- Topping, R. F. (PS, V. 34; see Louis, J. F.)
- Torda, T. Paul (AIAA J; see Morel, Thomas)
- Torvik, P. J. (JA, EN; see Cardea, G. C.)
- Touryan, K. J. (AIAA J, SA; see Chung, P. M.)
- Tramm, P. C. (JA; see Huffman, G. David)
- Tran, Nam C. (AIAA J, SYN; see Arndt, Roger E. A.)
- Trapp, W. J. (AIAA J; see Yang, J.-N.)
- Trexler, Carl A. Performance of an inlet for an integrated scramjet concept. (JA, EN) 589
- Trolinger, J. D., Belz, R. A., and O'Hare, J. E. Holography of nozzles, jets, and spraying systems. (PS, V. 34) 249
- Trost, J. E. (AIAA J, SYN; see Shackelford, W. L.)
- Tsahalis, D. Th. and Telionis, D. P. Oscillating laminar boundary layers and unsteady separation. (AIAA J) 1469
—(AIAA J; see Telionis, D. P.)
- Tsou, F. K., Chou, P. C., and Singh, I. Apparent tensorial conductivity of layered composites. (AIAA J) 1693
- Tsuchiya, Kazuo and Saito, Haruo Dynamics of a spin-stabilized satellite having flexible appendages. (AIAA J) 490
- Tsuei, Y. G. (AIAA J, TN; see Nilson, R. H.)
- Tsui, Tien-Yu (AIAA J; see Lakshmikantham, C.)
- Turco, R. P. (AIAA J; see Whitten, R. C.)
- Turner, L., III (AIAA J; see Wu, J. C.)
- Tyler, James S. (JA; see Mehra, Raman K.)
- Ueng, C. E. S. and Sun, Y. S. Large elastic deformation of an inflatable membrane of revolution. (AIAA J) 761
- Uman, M. A. (JSR; see Krider, E. P.)
- Unruh, James F. and Bass, Robert L., III Doublet lattice-source method for calculating unsteady loads on cavitating hydrofoils. (JH) 146
- Unsworth, K. (AIAA J, TC; see Bradshaw, P.)
- Usiak, Leonard and Ramsden, Philip Minuteman III liquid propulsion system storage surveillance program. (JSR, EN) 792
- Vachon, W. A., Fairbanks, D. R., Martorana, R. T., and Nathanson, D. Thermal control of the Apollo 17 lunar traverse gravimeter. (PS, V. 35) 517
- Vaeth, J. Gordon The airship can meet the energy challenge. (A/ A, February) 25
- Vaicaitis, R., Dowell, E. H., and Ventres, C. S. Nonlinear panel response by a Monte Carlo approach. (AIAA J) 685
- Van Allen, James A. and Randall, Roger F. Jupiter's magnetosphere as observed with pioneer 10. (A/ A, July-August) 14
- Van Cleve, G. C. Inflight engine condition monitoring system. (PS, V. 34) 471
- Vander Veen, Richard, Gentry, Roy, and Hoffman, Joe D. Design of shrouded-plug nozzles for maximum thrust. (AIAA J) 1193
- Van Roberts, J. and Rohy, David A. Gas temperature-density (GTD) sensor for turbine inlet gas temperature measurement. (PS, V. 34) 355
- Varsi, Giulio (AIAA J; see Back, Lloyd H.)
- Varwig, R. L. Photographic observations of CW HF chemical laser reacting flowfield. (AIAA J, TN) 1448
- Varwig, Robert L. and Kwok, Munson A. CW HF chemical laser flow diagnostic measurements. (AIAA J) 208
- Vatsa, V. N. (AIAA J; see Werle, M. J.)
- Vendhan, C. P. and Dhoopar, B. L. Nonlinear vibration of orthotropic triangular plates. (AIAA J, ERR) 1008
- Ventres, C. S. (AIAA J; see Vaicaitis, R.)
- Venugopal, V. K. (AIAA J, TN; see Durgapal, U. C.)
- Verdon, Joseph M. Unstead flow downstream of an airfoil oscillating in a supersonic stream. (AIAA J, TN) 999
- Verdouw, A. J. (JA; see Verkamp, F. J.)
- Verkamp, F. J., Verdouw, A. J., and Tomlinson, J. G. Impact of emission regulations on future gas turbine engine combustors. (JA) 340
- Vicario, A. A., Jr., Freeman, W. T., Jr., and Casseday, E. D. High-temperature properties and failure criteria for rocket nozzle materials. (JSR) 631
- Vickery, W. K. (AIAA J; see Rosenberg, N. W.)
- Vier, W. F., III (JA; see Kutschenreuter, P. H., Jr.)
- Viets, Hermann (JA, SYN; see Boyle, Robert E., Jr.)
- Vijayakumar, K. (AIAA J; see Ramaiah, G. K.)
- Vincent, T. L., Cliff, E. M., Grantham, W. J., and Peng, W. Y. Some aspects of collision avoidance. (AIAA J, SYN) 3
- Vinh, N. X. Series expansion of the eccentricity for near parabolic orbits. (AIAA J, TN) 281
- Viskanta, R. (PS, V. 35; see Bergstrom, R. W., Jr.)
- Vondra, R. J. and Thomassen, K. I. Flight qualified pulsed electric thruster for satellite control. (JSR) 613
- Vorreiter, J. W., Burns, J. J., Pitts, W. C., and Stine, H. A. Atmosphere-entry behavior of a modular, disk-shaped isotope heat source. (JSR) 308
- Wadsworth, Donald van Z. Vinti solution for free-flight rocket trajectories. (AIAA J, TC) 1296
- Wagner, D. A. (AIAA J; see Pate, S. R.)
- Wagner, Hans (JSR, SYN; see Bhat, B. Rama)
- Walkden, F., Laws, G. T., and Caine, P. Shock capturing numerical method for calculating supersonic flows. (AIAA J) 642
- Walker, J. S. (AIAA J, TN; see Evbuoma, S. N.)
- Waltrup, Paul J. and Billig, Frederick S. Structure of shock waves in cylindrical ducts. (AIAA J, ERR) 736
- Waltrup, Paul J. and Cameron, James M. Wall shear and boundary-layer measurements in shock separated flows. (AIAA J, TN) 878
- Waltz, Donald M. and Quantock, Charles W. Manned Earth orbital laboratories to perform communications/ navigation research. (PS, V. 32) 363
- Wan, F. Y. M. and Lakshmikantham, C. Spatial correlation method and a time-varying flexible structure. (AIAA J) 700
- Wang, Bo Ping (AIAA J; see Pikey, Walter D.)
- Wang, Chi R. (AIAA J, TN; see Zakkay, V.)
- Wang, K. C. Laminar boundary layer near the symmetry plane of a prolate spheroid. (AIAA J) 949
- Wang, Ping-Chun (AIAA J; see Switzky, Harold)
- Wang, Taylor G., Saffren, Melvin M., and Elleman, Daniel D. Acoustical levitation for space processing. (A/ A, July-August) 42
- Ward, J. Richard Specific heat of X 14 propellant. (AIAA J, TN) 107
- Ward, Theodore E. and Schuster, John R. Coolant pressurization and expulsion for transpiration nosetips. (JSR) 518
- Wardlaw, Andrew B., Jr. Prediction of yawing force at high angle of attack. (AIAA J, TN) 1142
- Warsi, Z. U. A. One-parameter solution of the spanwise rotating blade boundary-layer equation. (AIAA J, TN) 1421
- Warsi, Z. U. A. and Mertaugh, L. J. Estimation of turbulent energy dissipation using available transfer theories. (AIAA J, TN) 237
- Washizu, Kyuichiro (AIAA J; see Goto, Norihiro)
- Wassel, A. T. and Mills, A. F. Combustion of carbon particles in a hypersonic turbulent boundary layer. (JSR) 803
- Watson, H. H. H. (JSR; see Fearn, D. G.)
- Watson, Leon E., Jr. (AIAA J, TN; see Oberkampf, William L.)
- Weaver, William L. Mars surface-to-orbit vehicles for sample return missions. (JSR, EN) 426
- Webb, Clifford M. Thermal design of a Saturn/ Uranus atmospheric entry probe. (PS, V. 35) 499
- Webb, William L. and Reukauf, Paul J. Turbine inlet gas temperature measurement system using a fluidic temperature sensor. (JA) 422
- Weidenbaum, Murray L. Restoring private enterprise to the defense industry. (A/ A, Nov.) 15
- Weinberg, Felix J. (A/ A, Nov.; see Oppenheim, Antoni K.)
- Weingarten, Norman C. (JA, SYN; see Hall, G. Warren)
- Weinstein, Leonard M. (AIAA J, SYN; see Fischer, Michael C.)
- Weiss, I. M. Information content subsetting of highly correlated error sources. (AIAA J) 1726
- Weisshaar, Terrence A. Influence of static aeroelasticity on oblique winged aircraft. (JA, EN) 247
—Influence of static aeroelasticity on oblique winged aircraft. (JA, ERR) 784
- Weisshaar, Terrence A. and Ashley, Holt Static aeroelasticity and the flying wing, revisited. (JA, EN) 718
- Wells, Gerald R. (AIAA J; see de Virgilio, Miguel A.)
- Werle, M. J. and Vatsa, V. N. New method for supersonic boundary-layer separations. (AIAA J) 1491
- Westerman, C. W. (PS, V. 33; see Gregorich, W. S.)
- Weston, Kenneth C. and Reddy, R. S. Unsteady temperature distribution in volume reflectors. (AIAA J, TN) 716
- Weston, Robert P. (AIAA J; see Fearn, Richard)
- Westphal, L. C. Optimal scheduling of a satellite control network using zero-one linear programming. (JSR, EN) 731
- Wheatcroft, Stephen Aeroplanes for the eighties. (A/ A, March) 34
- Whisnant, J. M. (JSR, EN; see Lohfeld, R. E.)
- Whitehead, Allan H., Jr. (JSR, EN; see Hefner, Jerry N.)
- Whitesides, John L. (AIAA J; see Poole, Lamont R.)
- Whitfield, D. L., Lewis, J. W. L., and Williams, W. D. Measurements in the near field of supersonic nozzles for chemical laser systems. (AIAA J, TN) 870
- Whitfield, Jack D. Ground testing and simulation—An overview: Part I: Economics. (A/ A, June) 54
- Whitsett, C. E. (JSR; see Murtagh, T. B.)
- Whitten, R. C. and Turco, R. P. Perturbations of the stratosphere and mesosphere by aerospace vehicles. (AIAA J) 1110
- Whitworth, J. E. (PS, V. 32; see Henry, V. F.)
- Widnall, Sheila E. (AIAA J; see Chu, Sing)
- Widnall, William S. Filtering and smoothing simulation results for CIRIS inertial and precision ranging data. (AIAA J) 856

- Wierum, F. A. (PS, V. 35; see Bannerot, R. B.)
- Wilbur, Paul J. Performance of a fifteen-centimeter ion thruster with reliable restart capability. (JSR) 621
- Mercury flow meter for ion thruster testing. (JSR, EN) 728
- Wilcox, David C. (AIAA J; see Saffman, P. G.)
- Reply by author to D. C. Reda. (AIAA J, TC) 1292
- Wilcox, James C. Competitive evaluation of failure detection algorithms for strapdown redundant inertial instruments. (JSR) 525
- Willems, P. Y. (AIAA J; see Boland, P.)
- Williams, C. L. and Colwell, G. T. Heat pipe model accounting for variable evaporator and condenser lengths. (AIAA J) 1261
- Williams, James C., III Large amplitude, low frequency solutions for a certain class of laminar boundary-layer problems. (AIAA J, SYN) 265
- Williams, James C., III and Johnson, W. Donald Semisimilar solutions to unsteady boundary-layer flows including separation. (AIAA J) 1388
- and Johnson, W. Donald Note on unsteady boundary-layer separation. (AIAA J, TN) 1427
- Williams, Thomas E. (JSR, EN; see Guman, William J.)
- Williams, W. D. (AIAA J, TN; see Whitfield, D. L.)
- Willoughby, P. G. (AIAA J, TN; see Dunlap, R.)
- Wing, L. D. Method for calculating aerodynamic heating on sounding rocket tangent ogive noses. (JSR) 357
- Winther, B. A. (JA; see Rowe, W. S.)
- Withers, D. J. and Jefferis, A. K. A Time division multiple-access system for INTELSAT. (PS, V. 33) 393
- Witherspoon, G. F. (JA, EN; see Cebeci, Tuncer)
- Witmer, Emmett A. (AIAA J; see Morino, Luigi)
- Witte, A. B. (AIAA J, SYN; see Shackleford, W. L.)
- Witte, K. J. (AIAA J; see Brederlow, G.)
- Wittrick, W. H. Comment on "Finite element structural analysis of local instability." (AIAA J, TC) 123
- Witze, Peter O. Centerline velocity decay of compressible free jets. (AIAA J, SYN) 417
- Wolf, Dean A simplified dynamic model of parachute inflation. (JA) 28
- (JA; see McVey, D. F.)
- Womack, William C., Bert, Charles W., and Perdreauville, Farrell J. Dynamics of sounding rockets at burnout. (JSR) 716
- Wong, J. K. S., Sandri, R., and Newman, J. A. A new experimental method for the investigation of fuel spray evaporation. (AIAA J) 269
- Wong, W. C. (PS, V. 33; see Duncan, J. W.)
- Wood, Lincoln J. Second-order optimality conditions for the Bolza problem with both endpoints variable. (JA) 212
- Comment on "Neighboring extremals for optimal control problems." (AIAA J, TC) 1452
- Woodcock, Gordon R. (JSR; see Patha, John T.)
- Wool, Mitchell R., Murphy, Andrew J., and Rindal, Roald A. Calorimeter measurement of heat transfer at hypersonic conditions. (JSR) 363
- Woolley, James P. and Karamcheti, K. Role of jet stability in edgetone generation. (AIAA J, SYN) 1457
- Worster, Bruce W. Particulate infrared radiation in aluminized solid-fuel rocket plumes. (JSR, EN) 260
- Wortman, Andrzej Foreign gas injection at windwardmost meridians of yawed sharp cones. (AIAA J, SYN) 741
- Comments on the "Increase of boundary-layer heat transfer by mass injection." (AIAA J, TC) 573
- Wortman, A. and Franks, W. J. Reversed boundary-layer flows with variable fluid properties. (AIAA J, TN) 406
- Wray, W. O. (JA; see Bradley, R. G.)
- Wright, A. J. (JH, EN; see Swales, P. D.)
- Wright, Jan Robert Flutter test analysis in the time domain using a recursive system representation. (JA, EN) 774
- Wright, W. H. Wobble correction for a dual-spin vehicle. (JSR, EN) 255
- Wu, J. C. (AIAA J; see Thompson, J. F.)
- Wu, J. C. and Turner, L., III Linear theory for chemically reacting flows. (AIAA J) 468
- Wu, James H. T., Ostrowski, P. Perry, Neemeh, Rafik A., and Lee, Patrick H. W. Experimental investigation of a cylindrical resonator. (AIAA J) 1076
- Wu, J. M. (AIAA J; see Kimble, K. R.)
- Wuerker, R. F. (PS, V. 34; see Matthews, B. J.)
- Yackel, R. A. (JSR; see Kuo, B. C.)
- Yamasaki, Hiroyuki (AIAA J, TN; see Shioda, Susumu)
- Yang, H. K. and Yu, C. P. Experimental study of mixed convection heat transfer in an MHD channel. (AIAA J, TN) 1740
- Yang, J.-N. and Trapp, W. J. Reliability analysis of aircraft structures under random loading and periodic inspection. (AIAA J) 1623
- Yang, Tien Tsai (AIAA J, TN; see Robinson, Lawrence Baylor)
- Yang, T. Y. (JSR; see Baig, M. I.)
- Yang, T. Y. and Kim, H. W. Asymmetrical bending and vibration of a conical shell finite element. (AIAA J, SYN) 257
- Yates, D. N. (AIAA J; see Sharifi, P.)
- Yates, E. Carson, Jr. (JA; see Rufo, S. Y.)
- Yates, John E. Calculation of initial vortex roll-up in aircraft wakes. (JA) 397
- Linearized integral theory of three-dimensional unsteady flow in a shear layer. (AIAA J) 596
- Yeh, T. T. (AIAA J; see Rosciszewski, J. J.)
- York, Randy J. (JSR, SYN; see Pastrick, Harold L.)
- Yoshikawa, Kenneth K. Numerical solution of a nonlinear integral equation by the use of step functions: III. continuous solutions. (AIAA J, TN) 1769
- Yoshikawa, Takao (AIAA J, TN; see Kusumoto, Keiichi)
- Young, D. L. (JSR; see Hearn, H. C.)
- Young, Maurice I. and Bailey, David J. Stability and control of hingeless rotor helicopter ground resonance. (JA) 333
- Yovanovich, M. Michael A general expression for predicting conduction shape factors. (PS, V. 35) 265
- (JSR, EN; see Schneider, G. E.)
- Yovanovich, M. Michael and Kitscha, W. W. Modeling the effect of air and oil upon the thermal resistance of a sphere-flat contact. (PS, V. 35) 293
- Yu, C. P. (AIAA J, TN; see Yang, H. K.)
- Zahalak, G. I. and Myers, M. K. On the accuracy of Whitham's method. (AIAA J) 203
- Zakkay, V., Wang, Chi R., and Miyazawa, M. Effect of adverse pressure gradient on film cooling effectiveness. (AIAA J, TN) 708
- Zankl, G. (AIAA J, TN; see Daily, J. W.)
- Zelazny, S. W. Study of methods for modeling centerline mass fraction decay in turbulent jets. (AIAA J, TN) 235
- Zeldin, Saydean and Speyer, Jason Maximum noise abatement trajectories. (JA, EN) 119
- Zetkov, George (JSR, SYN; see Austin, Fred)
- Zinkham, R. E. (JA; see Levy, S. A.)
- Zinko, H. (AIAA J; see Brederlow, G.)
- Zinn, B. T. (JSR; see Janardan, B. A.)
- Zukas, J. A. Effects of transverse normal and shear strains in orthotropic shells. (AIAA J, TN) 1753