

AUTHOR INDEX

- Abu-Romia, M. M. (AIAA J, TN; see Pyare, R.)
- Aceto, L. D. (AIAA J; see Kollrack, R.)
- Acosta, A. J. (JSR; see Brennen, C.)
- Acton, L. L., Griggs, M., Hall, G. D., Ludwig, C. B., Malkmus, W., Hesketh, W. D., and Reichle, H. Remote measurement of carbon monoxide by a gas filter correlation instrument. (AIAA J, SYN) 899
- Adams, Roy W. (JSR; see Pawlik, Eugene V.)
- Agrawal, Brij N. and Evan-Iwanowski, R. M. Resonances in nonstationary, nonlinear, multidegree-of-freedom systems. (AIAA J) 907
- Akay, H. U. (AIAA J, TN; see Oden, J. T.)
- Akey, Norman D. (JSR; see Schroeder, Lyle C.)
- Albanese, T. (JSR; see Berman, K.)
- Alber, Irwin E., Bacon, John W., Masson, Bruce S., and Collins, Donald J. An experimental investigation of turbulent transonic viscous-inviscid interactions. (AIAA J) 620
- Albers, James A. Application of compressibility correction to calculation of flow in inlets. (JA, EN) 441
- Aldrich, G. T. and Krabill, W. B. An application of Kalman techniques to aircraft and missile radar tracking. (AIAA J) 932
- Ali, S. Firasat (AIAA J, TN; see Tucker, Henry J.)
- Allemann, R. A. (AIAA J, SYN; see Lancaster, J. E.)
- Allen, Jerry M. Evaluation of Preston tube calibration equations in supersonic flow. (AIAA J, SYN) 1461
- Allred, A. P. (AIAA J; see Hall, B. M.)
- Almroth, B. O., Brogan, F. A., and Marlowe, M. B. Stability analysis of cylinders with circular cutouts. (AIAA J, TN) 1582
- Alston, D. W. (AIAA J, TN; see Bushnell, D. M.)
- Alwar, R. S. and Rao, N. Ramachandra Nonlinear analysis of orthotropic skew plates. (AIAA J) 495
- Amba-Rao, C. L. (AIAA J, TN; see Singa-Rao, K.)
- (AIAA J, TC; see Rao, K. Singa)
- (AIAA J, ERR; see Bansal, S. K.)
- Amick, James L. and Masoud, Tariq Reattachment of a separated boundary layer to a convex surface. (AIAA J, TN) 1426
- Amos, Robert G., Maples, Glennon, and Dyer, David F. Thrust of an air-augmented waterjet. (JH) 64
- Anchev, Atanas A. Equilibrium attitude transitions of a three-rotor gyrostator in a circular orbit. (AIAA J) 467
- Anderson, D. C., Berger, R. L., and Hess, J. R., Jr. Maneuver load control and relaxed static stability applied to a contemporary fighter aircraft. (JA) 112
- Anderson, J. D., Jr. (JSR, SYN; see Vamos, J. S.)
- Wagner, Jerry L., and Knott, Joseph CO₂ laser radiation absorption in SF₆-air mixtures. (AIAA J, TN) 1424
- Anderson, James Kent (JSR; see Heard, Walter L., Jr.)
- Anderson, L. A. Effect of surface catalytic activity on stagnation heat-transfer rates. (AIAA J) 649
- (AIAA J, TN; see Park, Chul)
- Anderson, Melvin S. (JSR; see Heard, Walter L., Jr.)
- Anderson, William J. Dynamic instability of a cable in incompressible flow. (AIAA J, SYN) 587
- Ando, Shigenori (JA; see Mamada, Hiroshi)
- Andrus, Jan F. and Greenleaf, William G. First-order corrections to approximate solutions to two-point boundary-condition problems. (AIAA J) 1517
- Ankarswärd, Björn Missile liquid rocket propulsion unit VR35 and some of its development problems. (JSR, EN) 604
- Anyiwo, Joshua C. A force field theory: Part I. Laminar flow instability. (AIAA J) 43
- Armaly, B. F., Lam, T. T., and Crosbie, A. L. Emission of semi-infinite absorbing and isotropically scattering medium with refractive index greater than unity. (AIAA J) 1498
- Armenakas, Anthony E. (AIAA J; see Balderes, Theodore)
- Armstrong, W. C. (JSR; see Bauer, R. C.)
- Armstrong, William H. (AIAA J, TN; see Vos, Robert G.)
- Arnold, John W. (JA; see Cooksey, James M.)
- Ashburn, Edward V. (JA, EN; see Waco, David E.)
- Ashley, Holt (JA; see Weisshaar, Terrance A.)
- Ashwood, Peter F. An altitude test facility for large turbofan engines. (JA) 468
- Asner, Bernard, Jr. (JSR; see Seltzer, S. M.)
- Asnin, Scott K. and Roos, Darrell G. Mission design and navigation for a 1977-1978 Venus swingby/Mercury orbiter. (JSR) 631
- Asseo, Sabi J. Decoupling of a class of nonlinear systems and its application to an aircraft control problem. (JA) 739
- Atluri, Satyanadham An assumed stress hybrid finite element model for linear elastodynamic analysis. (AIAA J, TN) 1028
- Attiegh, Robert S., Friberg, Eric G., and Cohen, Richard E. U.S. aerospace industry at the crossroads. (A/A, November) 44
- Atzori, Bruno and Curti, Graziano Lowest critical velocity of rotating shafts. (AIAA J, TN) 885
- Bacon, John W. (AIAA J; see Alber, Irwin E.)
- Baddeley, Victor (AIAA J; see Likins, Peter W.)
- Bailey, Cecil D. Vibration of thermally stressed plates with various boundary conditions. (AIAA J) 14
- Bailey, F. R. and Steger, J. L. Relaxation techniques for three-dimensional transonic flow about wings. (AIAA J) 318
- Bailey, Paul B. and Touryan, Kenell J. Continuum electrostatic probes in the presence of negative ions: A numerical solution. (AIAA J, SYN) 1225
- Bainum, P. M. and Fedor, J. V. Nutational stability of a dual-spin satellite under the influence of applied reaction torques. (JSR) 295
- (JSR; see Sen, S.)
- Baker, E. Prediction of long-term heat-pipe performance from accelerated life tests. (AIAA J, TN) 1345
- Baker, James L. Satellites for maritime applications. (JSR, SYN) 547
- Balakrishnan, M. (AIAA J, TN; see Subramanian, N. R.)
- Balderes, Theodore and Armenakas, Anthony E. Free vibrations of ring-stiffened toroidal shells. (AIAA J) 1637
- Baldwin, Barrett S. (AIAA J, SYN; see Steger, Joseph L.)
- Chigier, N. A., and Sheaffer, Y. S. Decay of far-flowfield in trailing vortices. (AIAA J, SYN) 1601
- Balhoff, John F. and Pike, Ralph W. Modeling sublimation of a charring ablator. (JSE, EN) 822
- Ball, R. E., Power, H. L., and Fuhs, A. E. Fuel tank wall response to hydraulic ram during the shock phase. (JA, EN) 571
- Bandy, A. R. (AIAA J, SYN; see Hillard, Mervin E., Jr.)
- Banerjee, S. K. (AIAA J, TN; see Crosbie, A. L.)
- Banks, B. A. (JSR; see Rawlin, V. K.)
- Bannink, W. J. and Nebbeling, C. Investigation of the expansion side of a delta wing at supersonic speed. (AIAA J) 1151
- Bansal, S. K. and Amba Rao, C. L. Photoelastic model analysis of sandwich beams. (AIAA J, ERR) 1216
- Barbera, Frank J. and Likins, Peter Liapunov stability analysis of spinning flexible spacecraft. (AIAA J) 457
- (AIAA J; see Likins, Peter W.)
- Barebo, R. L. (JSR; see Bauer, R. C.)
- Bar-Itzhack, Itzhack Y. Phase lead S-plane compensation. (AIAA J) 1521
- Barker, Richard M. and Hatt, Fritz Analysis of bonded joints in vehicular structures. (AIAA J) 1650
- Barletta, Joseph M. (JSR; see Miller, B. P.)
- Barnes, Benny B. (JA; see Rolston, David R.)
- Barnes, R. E. (JSR, SYN; see Howell, L. J.)
- Barnwell, R. W. Transonic flow about lifting configurations. (AIAA J, TN) 764
- Baronti, Paolo (AIAA J; see Ferri, Antonio)
- Barrett, J. J. (AIAA J, SYN; see Smith, William Hayden)
- Bartholomew, B., Block, B., and Dratler, J., Jr. Linear and rotational quartz fiber accelerometers for geophysical and inertial use. (AIAA J, SYN) 1227
- Bartlett, Eugene P. (JSR; see Putz, Kurt E.)
- Barton, L. O. (AIAA J, TN; see Lou, Y. S.)
- Baruch, M. (AIAA J; see Shalev, A.)
- Battista, R. A. (JSR; see Turk, S. L.)
- Bauer, R. C., Matkins, E. H., Barebo, R. L., and Armstrong, W. C. A theoretical and experimental study of a jet stretcher system. (JSR) 395
- Bayless, John R. (JSR; see Herron, Bill G.)
- Beck, Fred B. (AIAA J; see Dunn, Michael G.)
- Beck, George A. (JSR; see Miller, B. P.)
- Beichel, Rudi (A/A, June; see Salkeld, Robert)
- Belding, John A. and Coley, William B. Integral rocket/ramjet for tactical missiles. (A/A, December) 20
- Bell, W. A. (AIAA J; see Zinn, B. T.)
- Bellini, Paul X. Forced motion of lumped mass systems including the effect of axial force. (JSR, EN) 610
- Belytschko, Ted Reply by author to K. E. Buck. (AIAA J, TC) 1358
- Bement, L. J. (JSR; see Marchese, V. P.)
- Bender, David F. and Bourke, Roger D. Multiasteroid comet missions using solar electric propulsion. (JSR, SYN) 481
- Benedetto, K. R. (AIAA J; see Schreiber, P. W.)
- Bennett, James A. Ultraharmonic motion of a viscously damped nonlinear beam. (AIAA J) 710
- Benzakein, M. J., Kazin, S. B., and Montegani, F. NASA/GE quiet engine "A." (JA) 67
- Berger, R. L. (JA; see Anderson, D. C.)
- Bergeron, R. F., Jr. (AIAA J; see Kiel, R. E.)
- Bergman, Dave Unique characteristics of exhaust-plume interference. (JA, EN) 508
- Berman, Alex and Giansante, Nicholas Determination of free-body responses from constrained tests. (AIAA J) 1622
- Berman, K., Albanese, T., Blessing, A., and Roth, N. Additives for heat-transfer reduction in the propellant combinations N₂O₄-MMH and N₂O₄-A-50. (JSR) 493
- Ferber, T., Roth, N., and Blessing, A. Scaling of performance and thermal environment in fuel-vortex cooled rocket engines. (JSR, EN) 477

- Bernussou, Jacques** Satellites attitude control by reaction jet frequency modulation. (JSR) 52
- Bert, Charles W.** (JSR, EN; see Guess, Tommy R.)
—(JA, EN; see Davenport, Otha B.)
—(JA, EN; see Fisher, Cary A.)
- Bertin, John J., Graumann, Bruce W., and Goodrich, Winston D.** Aerothermodynamic aspects of shock-interference patterns for shuttle configurations during entry. (JSR, SYN) 545
- Lamb, J. Parker, Zickler, Jeffrey L., and Goodrich, Winston D.** Heat-transfer measurements for cylindrical configurations in hypersonic streams. (JSR, EN) 217
- Bertke, S. D.** (AIAA J, TN; see Werle, M. J.)
- Bevilaqua, Paul M.** Reply to comment by Philip A. Graham. (JA, TC) 703
- Beynon, John C.** (JSR, EN; see Zafran, Sidney)
- Bharathan, D.** (JSR; see Fisher, S. S.)
- Bhateley, I. C.** (JA, EN; see Bradley, R. G.)
- Bhatia, Kumar G. and Rudisill, Carl S.** Comment on "Rates of change of flutter Mach number and flutter frequency." (AIAA J, TC) 1791
- Biesterveld, John R.** (JA; see Pepper, William B.)
- Bilanin, Alan J. and Covert, Eugene E.** Estimation of possible excitation frequencies for shallow rectangular cavities. (AIAA J) 347
- Billig, F. S.** (AIAA J; see Waltrup, P. J.)
—(JSR, EN; see Waltrup, P. J.)
- Bilyk, M. A.** (JSR; see Rochelle, William C.)
- Bishop, William M. and Minkowycz, W. J.** Decomposition rate of a phenolic resin. (AIAA J) 438
- Bisplinghoff, Raymond L.** Our R&D challenge for national energy policy. (A/A, August) 18
- Bjorklund, Fritz R.** (JH; see Johnson, Robert S.)
- Black, Richard E. and Murphy, David G.** Advanced technology applications to present and future transport aircraft. (JA) 259
- Blackshear, W. Thomas, Tolson, Robert H., and Day, Gail M.** Mars lander position estimation in the presence of ephemeris biases. (JSR, EN) 284
- Blaser, Dwight A. and Velkoff, Henry R.** A preliminary analytical and experimental investigation of helicopter rotor boundary layers. (AIAA J) 1660
- Blessing, A.** (JSR; see Berman, K.)
—(JSR, EN; see Berman, K.)
- Blick, Edward F.** (AIAA J, TN; see Doty, Robert T.)
- Block, B.** (AIAA J, SYN; see Bartholomew, B.)
- Blottner, Frederick G.** Correlation of the mass flow rate in the laminar boundary layer on a sphere-cone. (AIAA J, TN) 1044
- Blum, Richard J.** (AIAA J; see Dunn, Michael G.)
- Blumenthal, V. L., Streckenbach, J. M., and Tate, R. B.** Aircraft environmental problems. (JA) 529
- Boain, R. J.** (JSR; see Lee, B. G.)
- Bobick, J. C. and Bryson, A. E., Jr.** Updating inertial navigation systems with VOR/DME information. (AIAA J) 1377
- Bolton, Frank C.** Refurbishable spacecraft: Modules and components for the shuttle era. (A/A, April) 44
- Bongiovanni, P. L.** (AIAA J; see Hutchinson, C. E.)
- Bootle, William J.** Mass properties of sphere-cone entry vehicles. (JSR, EN) 815
- Boraas, Stanton** Transonic nozzle flow with nonuniform gas properties. (AIAA J) 210
- Borger, John G.** Influences of international operations on aircraft-transport design. (A/A, July) 24
- Bose, Tarit K.** Flow properties fluctuations in a convergent-divergent nozzle. (JSR, EN) 530
—Thermodynamic expansion processes for argon plasma in a convergent-divergent nozzle. (JSR, EN) 613
- Bossel, Hartmut H.** Swirling flows in streamtubes of variable cross section. (AIAA J) 1161
- Boucher, Roland J.** (AIAA J, TN; see Johnson, Donald E.)
- Boulter, Michael J.** (A/A, December; see Meyer, George E.)
- Bourke, Roger D.** (JSR, SYN; see Bender, David F.)
- Bourquin, K. R.** (JA; see Denery, D. G.)
- Boyer, Keith** Laser-initiated fusion—Key experiments looming. (A/A, January) 28
—Power from laser-initiated nuclear fusion. (A/A, August) 44
- Bracco, Frediano V.** An experimental-analytical method to study steady spray combustion. (JSR, SYN) 353
- Bracewell, Ronald N.** The opening message from an extraterrestrial probe. (A/A, May) 58
- Bradley, R. G., Smith, C. W., and Bhateley, I. C.** Vortex-lift prediction for complex wing planforms. (JA, EN) 379
- Bradner, Hugh** (AIAA J, TN; see Reichle, Michael)
- Bradshaw, Peter** Comment on "Wall layer of plane turbulent wall jets without pressure gradients." (JA, TC) 698
—**and Patel, V. C.** Comment on "Mean velocity profile of a thick turbulent boundary layer along a circular cylinder." (AIAA J, TC) 893
- Bramlette, T. Taz, Smith, Richard R., and Sliski, Neil J.** Fin induced laminar interactions on sharp and spherically blunted cones. (JSR) 696
- Bratanow, Theodore, Ecer, Akin, and Kobiske, Michael** Finite-element analysis of unsteady incompressible flow around an oscillating obstacle of arbitrary shape. (AIAA J) 1471
- Breaks, J. C.** Dynamic modeling of high bypass ratio turbofan engines. (JA) 350
- Brederlow, G., Witte, K. J., and Zinko, H.** Investigation of the discharge structure in a noble gas alkali MHD generator plasma: Part I. (AIAA J) 1065
—**and Witte, K. J.** Investigation of the discharge structure in a rare gas alkali MHD generator plasma: Part II. (AIAA J) 1072
- Breedlove, William J., Jr.** (AIAA J; see Compton, Harold R.)
- Brennen, C. and Acosta, A. J.** Theoretical, quasi-static analysis of cavitation compliance in turbopumps. (JSR) 175
- Breslin, John P.** Prospects for 1973 (JH, E) 1
- Briggs, M. M.** (JSR; see Clark, W. H.)
- Brines, Gerald L.** Propulsion system design for the ATT. (JA) 487
- Brix, C. W., Jr.** (AIAA J; see Platzer, M. F.)
- Brogan, F. A.** (AIAA J, TN; see Almroth, B. O.)
- Bronowicki, A. J.** (AIAA J, TN; see Felton, L. P.)
- Brooks, David R., Drewry, Joseph W., and Hampshire, William F., II** Opportunities for multiple asteroid flybys in the 1970's and 1980's. (JSR) 588
- Brooks, E. N., Jr. and Zeitfuss, W., Jr.** An analysis of desired maneuvering characteristics of large Arctic SEV'S. (JH) 112
- Brooks, George W.** Developing structures technology for the day after tomorrow. (A/A, July) 56
- Brown, Clinton E.** Aerodynamics of wake vortices. (AIAA J) 531
- Brown, Kenneth R.** (AIAA J; see Cohen, Audrey O.)
- Brewer, R. A., Saydah, A. R., Nestler, D. E., and Florence, D. E.** Thermal performance evaluation of RSI panel gaps for space shuttle orbiter. (JSR) 23
- Brusch, Richard G. and Schappelle, Robert H.** Solution of highly constrained optimal control problems using nonlinear programming. (AIAA J, SYN) 135
- Bryant, James T. and Wood, Stanley E.** Measurement of hydrazine gas generator performance by gas chromatography. (AIAA J, TN) 561
- Bryson, Arthur E., Jr.** (JA; see Hall, W. E., Jr.)
—(AIAA J; see Wood, Lincoln J.)
—(AIAA J; see Bobick, J. C.)
- Buck, Karl E.** Comment on "Finite elements for axisymmetric solids under arbitrary loadings with nodes on origin." (AIAA J, TC) 1357
- Buglia, James J.** Planetary flybys resulting in heliocentric orbits normal to the ecliptic with fixed perihelia. (JSR, EN) 601
- Bulmer, Bruce M.** Flight test correlation technique for turbulent base heat transfer with low ablation. (JSR, EN) 222
—Detection of flight vehicle transition from base measurements. (JSR, EN) 280
—Hypersonic flight results showing Reynolds-number influence on turbulent base pressure. (AIAA J, TN) 1785
- Buonadonna, Victor R., Knight, Charles J., and Hertzberg, A.** Laser-heated hypersonic wind tunnel. (AIAA J, SYN) 1457
- Burbridge, Henry Keith** Shuttle payloads: Saving dollars by offsetting risks. (A/A, April) 52
- Burick, R. J.** Optimum design of space storable gas/liquid coaxial injectors. (JSR) 663
- Burkhard, Alan and Young, Warren** Buckling of a simply-supported beam between two unattached elastic foundations. (AIAA J, TN) 406
- Burkhart, James A.** Performance of a modified downstream-cathode MPD thruster. (JSR, EN) 86
- Burrows, Marshall C. and Kurkov, Anatole P.** An analytical and experimental study of supersonic combustion of hydrogen in vitiated air stream. (AIAA J, SYN) 1217
- Bursik, Joseph W.** Two-phase Mach numbers in heat pipe analysis. (AIAA J, SYN) 781
- Bushnell, David** Evaluation of various analytical models for buckling and vibration of stiffened shells. (AIAA J) 1283
—Nonsymmetric buckling of cylinders with axisymmetric thermal discontinuities. (AIAA J) 1292
- Bushnell, D. M. and Alston, D. W.** Calculation of transitional boundary-layer flows. (AIAA J, TN) 554
- Byers, D. C.** (JSR; see Rawlin, V. K.)
- Cady, E. C. and Kendle, D. W.** Vehicle-scale investigation of a fluorine jet-pump liquid hydrogen tank pressurization system. (JSR) 735
- Calico, Robert A.** (AIAA J; see Meirovitch, Leonard)
- Campbell, James F. and Schetz, Joseph A.** Flow properties of submerged heated effluents in a waterway. (AIAA J) 223
- Campion, Guy, Johnson, David A., and Willems, Pierre Y.** Stability of deformable gyrostats based on Sturm's Theorem. (AIAA J) 1093
- Campo, A. and Wolko, H. S.** Optimum rectangular radiative fins having temperature-variant properties. (JSR, EN) 811
- Caravani, Paolo and Thomson, William T.** Frequency response of a dynamic system with statistical damping. (AIAA J) 170
- Card, Michael F.** (JSR; see Heard, Walter L., Jr.)
- Cardou, Alain** Piecewise uniform optimum design for axial vibration requirement. (AIAA J, TN) 1760
- Carleone, Joseph** (AIAA J, TN; see Chou, Pei Chi)
- Carlson, Joseph M. and Harrison, Judson O., III** NASTRAN: A preliminary discussion of user impacts. (JA, SYN) 65
- Carlson, Neal A.** Fast triangular formulation of the square root filter. (AIAA J) 1259
- Carpenter, R. F.** (AIAA J, TN; see Lazdinis, S. S.)
- Casarella, Mario J.** (JH, SA; see Choo, Young-il)
- Cass, Stanley D., Scoggins, James R., and Chevalier, Howard L.** Low-altitude atmospheric turbulence around an airport. (JA) 157

- Cassanto, J. M.** A base pressure experiment for determining the atmospheric pressure profile of planets. (JSR) 253
 —Stabilization concepts for a spherical planetary entry probe configuration. (JSR, SYN) 753
- Cavanagh, J. R.** (JA, EN; see Cross, K. R.)
- Cross, K. R., Newman, R. L., and Spicer, W. C.** Graded thermal barrier—A new approach for turbine for turbine cooling. (JA, ERR) 192
- Caveny, L. H.** (JSR; see Turk, S. L.)
 —(AIAA J; see Peretz, A.)
 —(JSR, EN; see Saraniero, M. A.)
- Cavin, R. K., III** (AIAA J; see Hymas, C. E.)
- Caywood, William C.** (AIAA J; see Dailey, George)
- Cebeci, Tuncer** Variation of the Van Driest damping parameter with mass transfer. (AIAA J, TN) 237
 —Kinematic eddy viscosity at low Reynolds numbers. (AIAA J, TN) 102
- Caner, Robert J.** (JSR; see Kaplan, Marshall H.)
- Chackerian, Charles, Jr.** Vibrational relaxation of carbon monoxide studied by two-wavelength infrared emission. (AIAA J) 1706
- Chadwick, William R.** Transverse deflection of guided projectile tail fins during deployment. (JSR, EN) 606
- Chambers, Alan B.** (JSR, EN; see Shitzer, Avraham)
- Chan, T. K.** (AIAA J; see Shen, S. F.)
- Chandra, Kailash** (AIAA J, TN; see Rathy, R. K.)
- Chang, C. I. and Conway, H. D.** Stresses in a fiber-reinforced elastic sheet containing a circular hole. (AIAA J) 806
- Chang, P. K. and Oh, Y. H.** Reply by authors to R. H. Cramer. (JH, TC) 96
- Chang, Pin Yu and Pilkey, Walter D.** Static and dynamic analysis of mooring lines. (JH) 29
- Chapter, John J.** Spacecraft thermal environments. (JSR, EN) 93
- Chase, David M.** Reply by author to P. Bradshaw and V. C. Patel. (AIAA J, TC) 894
- Chattopadhyay, Arup and Dhatt, Gurbachan** Finite deflection of a deep arch with boundary imperfections. (AIAA J, TN) 235
- Chaump, L.** (AIAA J; see Martellucci, A.)
- Cheng, Dah Yu, Wang, Peter, and Chisel, Dean M.** Experimental study on optimization parameters of a supersonic jet ejector thrust augmentor. (JA, EN) 569
- Cheng, H. K. and Hafez, M. M.** Equivalence rule and transonic flow theory involving lift. (AIAA J, TN) 1210
- Cherchas, D. B. and Hughes, P. C.** Attitude stability of a dual-spin satellite with a large flexible solar array. (JSR) 126
- Cherry, William R.** Harnessing solar energy: The potential. (A/A, August) 30
- Cheung, Y. K.** (AIAA J, SYN; see Khatua, T. P.)
- Chevalier, Howard** Flight test studies of the formation and dissipation of trailing vortices. (JA) 14
 —(JA; see Cass, Stanley D.)
- Chidley, John D. and Seader, J. D.** Effect of additives on ablation of phenolic-silica composites. (JSR) 7
- Chigier, N. A.** (AIAA J, SYN; see Baldwin, B. S.)
 —(JA; see Corsiglia, V. R.)
- Childs, Morris E.** (JA, EN; see Sun, Chen-Chih)
 —(AIAA J, TN; see Rose, William C.)
- Chipman, Richard R., Rauch, Frank J., and Hess, Robert W.** Flutter of pairs of aerodynamically interfering delta wings. (JA) 728
- Chisel, Dean M.** (JA, EN; see Cheng, Dah Yu)
- Chobotov, V. A.** Optimum strategy for the correction of orbit-injection errors of arbitrary orientation. (AIAA J, TN) 375
- Choo, Young-il and Casarella, Mario J.** A survey of analytical methods for dynamic simulation of cable-body systems. (JH, SA) 137
- Chopra, M. G.** Diffraction and reflection of shocks from corners. (AIAA J, TN) 1452
- Chou, Pei Chi and Carleone, Joseph** Transverse shear in laminated plate theories. (AIAA J, TN) 1333
- Chou, Y. S.** Approximate method of solution for three-dimensional boundary layers. (AIAA J, TN) 1025
- Christiano, Paul** (AIAA J, TN; see Murthy, Kalayya Narayana)
- Christiansen, R. G.** (AIAA J; see Cruise, D. R.)
- Christoph, G. H.** (AIAA J; see White, F. M.)
 —(AIAA J, TN; see Lessmann, Richard C.)
 —Lessmann, Richard C., and White, Frank M. Calculation of turbulent heat transfer and skin friction. (AIAA J, TN) 1046
 —(AIAA J, ERR; see Lessmann, Richard C.)
- Chu, Chong-Wei** Supersonic flow about slab delta wings and wing-body configurations. (JSR, EN) 741
- Chu, Ki-Shun** A certain type of ill-conditioned stiffness matrix. (AIAA J, TN) 106
- Chung, Benjamin T. F. and Yeh, L. T.** Heat conduction in slabs with uniform heat sources and radiative boundary conditions. (JSR, SYN) 483
 —and Yeh, L. T. Integral method for nonlinear transient heat transfer in a semi-infinite solid. (JSR, EN) 88
 —and Yeh, L. T. Integral method for nonlinear transient heat transfer in a semi-infinite solid. (JSR, ERR) 688
- Chung, Chin-Jer** (AIAA J, TN; see Smith, Dallas G.)
- Chung, Ho** (AIAA J, TN; see Greif, Robert)
- Chung, Paul M.** Performance of turbulent chemical laser. (AIAA J, TN) 1040
- Chung, T. J. and Eidson, R. L.** Viscoelastoplastic response of axisymmetric shells under impulsive loadings. (AIAA J) 478
- Churchyard, James Nohl** A universal three-angle basis for rotational kinematic analysis, simulation, and control. (JSR, ERR) 480
- Chute, F. S.** (AIAA J, TN; see Hepburn, J. D.)
- Claffey, James A.** (JH; see Johnson, Robert S.)
- Clare, T. A.** (JA, EN; see Daniels, P.)
- Clark, Edward L., Jr. and Hodapp, Albert E., Jr.** Experimental determination of asymmetry-induced trim angles of attack. (JSR) 322
- Clark, Frank L. and Creel, Theodore R. Jr.** Reference temperature method for predicting turbulent compressible skin-friction coefficient. (AIAA J, TN) 239
- Clark, W. H., Peoples, J. R., and Briggs, M. M.** Occurrence and inhibition of large yawing moments during high-incidence flight of slender missile configurations. (JSR) 510
- Cliff, Eugene M. and Lutze, Frederick H.** Reply to comment by Paul R. Motyka and G. Warren Hall (JA, TC) 701
- Cliff, William C., Fuller, Charles, E., III, and Sandborn, Virgil A.** Simultaneous comparison of turbulent gas fluctuations by laser Doppler and hot wire. (AIAA J, TN) 748
- Clough, N.** (JA; see Diedrich, J. H.)
- Clough, Ray W.** (AIAA J; see Fonder, Ghislain A.)
- Cogan, D. M. and Harvey, J. K.** Probe interference in high-speed rarefied flows. (AIAA J, TN) 1765
- Cohen, Audrey O. and Brown, Kenneth R.** Real-time optimal guidance for orbital maneuvering. (AIAA J) 1266
- Cohen, Richard E.** (A/A, November; see Attiyeh, Robert S.)
- Cohen, William** New horizons in chemical propulsion. (A/A, December) 46
- Coleman, G. T.** Aerodynamic force measurement on caret and delta wings at high incidence. (JSR, EN) 750
- Coleman, Hugh W.** (AIAA J, TN; see Lemmon, E. Clark)
 —and Lemmon, E. Clark Turbulent interference heating on several small fin configurations. (JSR, EN) 820
- Coleman, W. D.** (JSR; see Schneider, P. J.)
- Coley, William B.** (A/A, December; see Belding, John A.)
- Collins, Donald J.** (AIAA J; see Alber, Irwin E.)
- Colunga, D.** (AIAA J; see Hymas, C. E.)
- Colwell, Gene T.** (AIAA J, SYN; see Goradia, Suresh H.)
- Compton, Harold R., Schiess, James R., and Breedlove, William J., Jr.** Effects of resonant tesseral gravity coefficients on Viking-type orbits. (AIAA J) 1743
- Connell, G. M.** Reply by author to W. O. Schiehlen. (AIAA J, TC) 128
- Conway, H. D.** (AIAA J; see Chang, C. I.)
- Conway, Joseph C.** (JH, EN; see Tsushima, Hideya)
- Cook, Robert D.** Comment on "Discrete element idealization of an incompressible liquid for vibration analysis" and "Discrete element structural theory of fluids." (AIAA J, TC) 766
- Cooksey, James M. and Arnold, John W.** Transonic flow quality improvements in a blowdown wind tunnel. (JA) 554
- Cookson, R. A.** (AIAA J, TN; see Isaac, J. J.)
- Cooper, J. L.** (JA, EN; see Rudisill, C. S.)
- Cooper, Ralph S.** Motion of solid D_2 under laser irradiation. (AIAA J) 831
- Coppolino, Robert N.** Exact hydroelastic solution for an ideal fluid in a hemispherical container. (JSR, EN) 612
- Corsiglia, V. R., Schwind, R. G., and Chigier, N. A.** Rapid scanning, three-dimensional hot-wire anemometer surveys of wing-tip vortices. (JA) 752
- Costen, Robert C.** Drift of buoyant wing-tip vortices. (JA, ERR) 320
- Covert, Eugene E.** (AIAA J; see Bilanin, Alan J.)
- Craig, Roy R., Jr.** Optimization of a supersonic panel subject to a flutter constraint—A finite-element solution. (AIAA J, TN) 404
- Craig, Samuel J. and Heffley, Robert K.** Factors governing control in a STOL landing approach. (JA) 495
- Cramer, Raymond H.** Earliest classic result for the turbulent hydraulic wake behind body of revolution. (JH, TC) 95
- Crawford, David H.** A graphical method for the investigation of shock interference phenomena. (AIAA J, TN) 1590
- Creel, Theodore R., Jr.** (AIAA J, TN; see Clark, Frank L.)
 —Mach number and Reynolds number effect on orbiter/tank interference heating. (JSR, EN) 535
- Crews, S. T.** (JA, EN; see Hohenemser, Kurt H.)
- Hohenemser, K. H., and Ormiston, R. A.** An unsteady wake model for a hingeless rotor. (JA, EN) 758
- Crimi, Peter and Johnson, Ronald A.** Aerodynamic loading on high-speed ground vehicles. (JA, EN) 317
- Cromack, Duane** (JA; see Poli, Corrado)
 —(JH; see Weetman, R. J.)
- Cronin, R. H. and Kane, T. R.** Gravitational stabilization of a two-body satellite. (JSR) 291
- Cronk, A. E.** (JA, EN; see Ramirez, A., Jr.)
- Crosbie, A. L.** (AIAA J; see Armaly, B. F.)
- and Banerjee, S. K.** Modified separable Kernel method for heat conduction with a nonlinear boundary condition. (AIAA J, TN) 744
- Emittance of an isothermal, isotropically scattering medium.** (AIAA J, TN) 1203
- Reflection function for an isotropically scattering finite medium.** (AIAA J, TN) 1448
- Cross, K. R., Lull, W. R., Newman, R. L., and Cavanagh, J. R.**

- Potential of graded coatings in vibration damping. (JA, EN) 689
 —(JA, ERR; see Cavanagh, J. R.)
 —(JA, ERR; see Newman, R. L.)
- Crotty, J. D.** (JSR; see Wen, L.)
- Cruise, D. R. and Christiansen, R. G.** Digital tuning as an exploratory tool in the modal analysis of randomly-loaded vibrating structures. (AIAA J) 1539
- Cruse, T. A.** (AIAA J; see Konish, H. J., Jr.)
- Cunnold, Derek M.** Observability of high-altitude atmospheric scattering layers. (JSR, SYN) 419
- Curry, D. M. and Williams, S. D.** Nonlinear least squares—An aid to thermal property determination. (AIAA J) 670
- Curti, Graziano** (AIAA J, TN; see Atzori, Bruno)
- Curtiss, H. C., Jr.** Complex coordinates in near hovering rotor dynamics. (JA) 289
- Czys, P., Glaser, F. C., and LaFavor, S. A.** Potential payoffs of variable geometry engines in fighter aircraft. (JA) 342
- Dai, Yau-tien** (JH, EN; see Liu, Chang-yu)
- Dailey, George, Caywood, William C. and O'Connor, James S.** A general purpose computer program for the dynamic simulation of vehicle-guideway interaction. (AIAA J) 278
- Daniel, B. R.** (AIAA J; see Zinn, B. T.)
- Daniels, P. and Clare, T. A.** Angular momentum and the aircraft-store separation problem. (JA, EN) 511
- D'Appolito, J. A.** (AIAA J; see Hutchinson, C. E.)
- Darwin, Charles R.** (A/A, May; see Murphy, James T.)
- Das, Aniruddha** (AIAA J, TN; see Maitra, Manoj)
 —Comment on "Thermally induced vibration and flutter of a flexible boom." (JSR, TC) 288
- Dasenbrock, Robert** (JSR; see Kaufman, Bernard)
- d'Attorre, Leo** (JSR; see Rochelle, William C.)
- Dauerman, Leonard and Salser, G. E.** Factor of fuel pyrolysis in injector design. (AIAA J, TN) 99
- Dauksys, Richard J.** (AIAA J, SYN; see Mills, George)
- Davenport, Otha B. and Bert, Charles W.** Buckling of orthotropic, curved, sandwich panels in shear and axial compression. (JA, EN) 632
- Davenport, Paul B.** Rotations about nonorthogonal axes. (AIAA J) 853
- Davies, W. D. T. and Martin, S. C.** A simplified correlation method for distance measurement using satellites. (JA) 525
- Davis, John William and Graham, Robert F.** Wind-tunnel wall interference effects for 20° cone-cylinders. (JSR) 671
 —and Graham, Robert F. High Reynolds number experimental data for forebody axial force. (AIAA J, TN) 379
- Davis, Joseph E. and Harris, Gordon L.** Nonplanar wings in nonplanar ground effect. (JA) 308
- Davis, Michael Richard** Application of hot wires to measurements in freely expanding jets. (AIAA, J, TN) 113
- Davis, Robert L. and Weber, Robert C.** Study of the effects of pressure-induced viscosity changes on the fluid flow characteristics in a circular tube. (AIAA J, SYN) 905
- Davy, W. C.** (AIAA J, TN; see Pearson, W. E.)
- Day, Gail M.** (JSR, EN; see Blackshear, W. Thomas)
- de Boer, P. C. T.** Ion boundary layer on a flat plate. (AIAA J) 1012
 —and Johnson, R. A. Reply by authors to A. G. Hammit. (AIAA J, TC) 1598
- DeBrock, S. C.** (JSR; see Dowdy, M. W.)
- Deckert, James C.** (JSR; see Potter, James E.)
- De Jarnette, Fred R. and Hamilton, H. Harris** Inviscid surface streamlines and heat transfer on shuttle-type configurations. (JSR) 314
- DeJode, A. D.** (AIAA J, TN; see Hsu, C. T.)
- Demetriades, A. and Laderman, A. J.** Reynolds stress measurements in a hypersonic boundary layer. (AIAA J, TN) 1594
- Denery, D. G., Bourquin, K. R., White, K. C., and Drinkwater, F. J., III** Flight evaluation of three-dimensional area navigation for jet transport noise abatement. (JA) 226
- Deyst, John J., Jr. and Price, Charles F.** Optimal stochastic guidance laws for tactical missiles. (JSR) 301
 —and Sutherland, Arthur A., Jr. Strapdown inertial system alignment using statistical filters: A simplified formulation. (AIAA J) 452
- Dhatt, Gurbachan** (AIAA J, TN; see Chattopadhyay, Arup)
- Dhoopar, B. L.** (AIAA J; see Vendhan, C. P.)
- Dickey, Robert R.** (AIAA J; see Lundell, John H.)
- Diedrich, J. H.** (JA; see Lieblein, S.)
 —Clough, N., and Lieblein, S. Installation effects on performance of multiple model V/STOL lift fans. (JA) 355
- Doenecke, Jochen** Application of the Monte Carlo method for radiation exchange in spacecraft. (JSR) 652
- Dokainish, M. A. and Kumar, K.** Vibrations of orthotropic parallelogramic plates with variable thickness. (AIAA J) 1618
- Dong, S. B. and Tso, F. K. W.** SH wave motions in laminated orthotropic plates. (AIAA J, TN) 746
- Dopkin, Joseph A. and Shoup, Terry E.** Flexibility coefficients for bending of a disk under sinusoidal edge loading. (AIAA J, TN) 1339
- Dosanjh, Darshan S. and Yu, James C.** Reply by authors to A. G. Kurn. (AIAA J, TC) 415
- Doty, Robert T. and Rasmussen, Maurice L.** Approximation for hypersonic flow past an inclined cone. (AIAA J) 1310
- and Blick, Edward F.** Local potential variational method applied to Hiemenz flow. (AIAA J, TN) 880
- Douglas, B. E.** (AIAA J; see Lu, Y. P.)
- Dowdy, M. W. and DeBrock, S. C.** Selection of a surface-tension propellant management system for the Viking 75 orbiter. (JSR) 549
- Dowell, E. H.** Theoretical vibration and flutter studies of point supported panels. (JSR) 389
 —Aerodynamic boundary layer effects on flutter and damping of plates. (JA) 734
 —(AIAA J, TN; see Yan, Miin-Jeng)
- and Ventres, C. S.** Derivation of aerodynamic Kernel Functions. (AIAA J, TN) 1586
- Draper, James Stark and Sutton, Emmett A.** A nomogram for high-altitude plume structures. (JSR, EN) 682
- Dratler, J., Jr.** (AIAA J, SYN; see Bartholomew, B.)
- Drewry, Joseph W.** (JSR; see Brooks, David R.)
- Driggers, Gerald W.** Short guide to Titan III launch vehicles. (A/A, February) 68
- Drinkwater, F. J. III** (JA; see Denery, D. G.)
- Driskell, T. D.** (JA, ERR; see Newman, R. L.)
- D'Souza, Norbert, Molder, Sannu, and Moretti, Gino** "Numerical method for hypersonic internal flow over blunt leading edges and two blunt bodies." (AIAA J, ERR) 256
- Duff, Karl M.** The NATO patrol missile hydrofoil. (PHM) (JH) 97
- Dugan, J. P.** Limitation of boundary residual methods. (AIAA J, TN) 1330
- Dugger, G. L., Bryans, R. F., and Huth, A.** In memoriam. (JA) 513
- Dugundji, John** (AIAA J, SYN; see Kuo, Ching-chiang)
- Dunn, Michael G.** (AIAA J; see Kang, Sang-Wook)
 —**Blum, Richard J., Swift, Calvin T., Beck, Fred B., and Grantham, William L.** Antenna admittance determination of electron density. (AIAA J) 1018
- Duong, Nguyen and Winn, C. Byron** Orbit determination by range-only data. (JSR) 132
- Dutt, B.** (JA; see Inger, G. R.)
- Dutton, Richard A.** (JSR; see McKinney, Howard F.)
- Dvorak, F. A.** Calculation of turbulent boundary layers and wall jets over curved surfaces. (AIAA J) 517
- Dwivedi, Narendra P.** Maneuver strategies for multiplanet missions. (AIAA J, SYN) 1229
- Dwyer, D. L.** (AIAA J; see Shang, J. S.)
 —(AIAA J; see Werle, M. J.)
 —(AIAA J, TN; see Hankey, W. L.)
- Dwyer, H. A.** Calculation of unsteady and three-dimensional boundary-layer flows. (AIAA J, SYN) 773
- Dyer, David F.** (JH; see Amos, Robert G.)
- Eames, M. C.** (JH; see Jeffrey, N. E.)
- Eaton, Roger R. and Kaestner, Peter C.** Viscous shock layer flow in the windward plane of cones at angle of attack. (AIAA J, TN) 1337
- Eaves, R. H., Jr.** (JSR, EN; see Pate, S. R.)
- Ebrahim, N. A. and Hornung, H. G.** Nonequilibrium nozzle expansions of carbon dioxide from a high-enthalpy reservoir. (AIAA J, SYN) 1369
- Ecer, Akin** (AIAA J; see Bratanow, Theodore)
 —Finite element analysis of the postbuckling behavior of structures. (AIAA J) 1532
- Edelson, Burton I.** Small Earth terminals for satellite communications. (A/A, June) 40
- Eder, Hans** New solar cell systems for solar probes. (JSR) 196
- Edergton, A. T., Meeks, D., and Williams, D.** Microwave emission characteristics of oil slicks. (JH) 35
- Edwards, Jack W.** MLS: On the beam for '76. (A/A, March) 24
- Ehlers, F. Edward** Stress distribution and displacements in a lubricated elastic seal. (JA, SYN) 3
- Ehrlich, Louis W.** (JH; see Schetz, Joseph A.)
- Eichenbaum, Frederick D.** An improved kernel function formulation for unsteady subsonic flow. (AIAA J, TN) 123
- Eickhoff, H. E.** Comment on "Laminar thermal boundary layers on continuous surfaces." (AIAA J, TC) 895
- Eidson, R. L.** (AIAA J, see Chung, T. J.)
- Ekstrom, R. E.** Dynamic buckling of a rectangular orthotropic plate. (AIAA J) 1655
- Eller, T. J.** (AIAA J, TN; see Williamson, W. E.)
- Ellis, David R.** (JA; see Seckel, Edward)
- Emory, M. Lawrence** (AIAA J, SYN; see Hillard, Mervin E., Jr.)
- Engel, Carl D., Farmer, Richard C., and Pike, Ralph W.** Ablation and radiation coupled viscous hypersonic shock layers. (AIAA J) 1174
- English, C. H.** Computer aided design-drafting (CADD)—Engineering/manufacturing tool. (JA) 747
- Ericsson, Lars E. and Reding, J. Peter** Stall-flutter analysis. (JA) 5
 —**Reding, J. Peter, and Guenther, Rolf A.** Elastic launch vehicle response to sinusoidal gusts. (JSR) 244
 —(JSR; see Reding, J. Peter)
 —**and Guenther, Rolf A.** Dynamic instability caused by forebody bending. (AIAA J, TN) 231
 —**Reding, J. Peter, and Guenther, Rolf A.** Relative magnitudes of stresses caused by static and dynamic launch vehicle loads. (JSR, EN) 276
 —**and Price, Donald A., Jr.** A mechanism for ablation-induced spin-up. (AIAA J, TN) 567

- Eubank, H. P. (AIAA J, TN; see Jacobsen, R. A.)
- Evan-Iwanowski, R. M. (AIAA J; see Agrawal Brij N.)
- Evans, J. S., Schexnayder, C. J., Jr., and Huber, Paul W. Boundary layer electron profiles for high-altitude entry of a blunt slender body. (AIAA J, SYN) 1371
- Evans, Norman A. Discharge characteristics in cesium-seeded argon. (AIAA J) 683
- Evans, R. M. and Kruger, C. H. Effects of channel size on the ionization instability in MHD generators. (AIAA J) 1006
- Eybouma, S. Nosakhare (AIAA J, TN; see Smith, Russell A.)
- Ezekiel, Shaoul (AIAA J; see Sullivan, John P.)
- Falanga, R. A. (JSR, EN; see Sutton, Kenneth)
- Fanning, A. E. and Mueller, T. J. Numerical and experimental investigation of the oscillating wake of a blunt-based body. (AIAA J) 1486
- Farmer, Richard C. (AIAA J; see Engel, Carl D.)
- Faust, Nickolas L. (JSR; see Taylor, James J.)
- Farrow, Leonilda A. and Fitch, Arthur H. Ultraviolet radiation from the bow shock of a sphere during atmospheric re-entry. (AIAA J) 272
- Favin, Stanley (JH; see Schetz, Joseph A.)
- (AIAA J, TN; see Schetz, Joseph A.)
- Fay, James A. (JA; see Overcamp, Thomas J.)
- Fearn, D. G. and Philip, C. M. An investigation of physical processes in a hollow cathode discharge. (AIAA J, SYN) 131
- Featherby, Michael (JA; see Hersh, Michael S.)
- Fedor, J. V. (JSR; see Bainum, P. M.)
- Feller, William V. Effects of upstream wall temperatures on hypersonic tunnel wall boundary-layer profile measurements. (AIAA J, TN) 556
- Felton, L. P., Nelson, R. B., and Bronowicki, A. J. Thin-walled elements in truss synthesis. (AIAA J, TN) 1780
- (AIAA J, ERR; see Nelson, Richard B.)
- Ferger, T. (JSR, EN; see Berman, K.)
- Ferri, Antonio and Baronti, Paolo A method for transonic wind-tunnel corrections. (AIAA J) 63
- Filotas, L. T. Finite chord effects on vortex induced wing loads. (AIAA J, TN) 888
- Fink, Martin R. (JA; see Paterson, Robert W.)
- Thrust reverser noise estimation. (JA, EN) 507
- Finson, Michael L. Hypersonic wake aerodynamics at high Reynolds numbers. (AIAA J) 1137
- Fischer, Michael C. Influence of moderate wall cooling on cone transition at $Me = 13.7$ in helium. (JSR, EN) 282
- Fisher, Cary A. and Bert, Charles W. Design of crashworthy aircraft cabins based on dynamic buckling. (JA, EN) 693
- Fisher, S. S. and Bharathan, D. Glow-discharge flow visualization in low-density free jets. (JSR) 658
- Fitch, Arthur H. (AIAA J; see Farrow, Leonilda A.)
- Fitzgerald, Dennis J. (JSR; see Pawlik, Eugene V.)
- Flax, Alexander H. Comment on "Simplification of the wing-body problem." (JA, TC) 640
- Comment on "Lift of wing-body combination." (AIAA J, TC) 896
- Comment on "Lateral vibration and stability relationship of elastically restrained circular plates." (AIAA J, TC) 1599
- Fleeter, Sanford Fluctuating lift and moment coefficients for cascaded airfoils in a nonuniform compressible flow. (JA) 93
- Fletcher, James C. ERTS-1: Toward global monitoring. (A/A, September) 32
- Florence, D. E. (JSR; see Brewer, R. A.)
- Flower, William (AIAA J, TN; see Hanson, Ronald K.)
- Fogaroli, Richard P. (AIAA J, SYN; see Laganelli, Anthony L.)
- Fogelson, S. A. (AIAA J; see Mandl, A.)
- Foley, William M. (JA; see Paterson, Robert W.)
- Fonder, Ghislain and Clough, Ray W. Explicit addition of rigid-body motions in curved finite elements. (AIAA J) 305
- Forney, A. K. Engine exhaust emission levels. (JA) 716
- Forrestal, M. J. (AIAA J, TN; see Walling, H. C.)
- Sagartz, M. J., and Walling, H. C. Comment on "Dynamic response of a cylinder to a side pressure pulse." (AIAA J, TC) 1355
- Forster, Karl M. Comment on Moretti's method. (AIAA J, TC) 576
- Fortier, R. C. Transverse vibrations related to stability of curved anisotropic plates. (AIAA J, TN) 1782
- Fox, Jay and Rungaldier, Harald Turbulent scattering spectra of electron density fluctuations in Mach 16 projectile wakes. (AIAA J) 1059
- Fox, R. L., Miura, H., and Rao, S. S. Automated design optimization of supersonic airplane wing structures under dynamic constraints. (JA, SYN) 321
- Fradkin, David B. Comment on "Performance of quasi-steady MPD thrusters at high powers." (AIAA J, TC) 413
- Fredericks, J. T. and Shorr, M. Material evaluation under direct rocket exhaust impingement. (JSR, EN) 533
- Fretz, R. T. (JH, EN; see Gilreath, H. E.)
- Friberg, Eric G. (A/A, November; see Attiyeh, Robert S.)
- Frick, Kenneth E. (JSR, EN; see Nunn, Robert H.)
- Frick, Roy K. Evaluation of the selection and training of fighter pilots. (JA) 120
- Fried, Isaac Shape functions and the accuracy of arch finite elements. (AIAA J) 287
- Friedman, Herbert High energy astronomy. (Dryden Lecture—A/A, April) 30
- Friedmann, Peretz Aeroelastic instabilities of hingeless helicopter blades. (JA) 623
- Frosch, Robert A. Reflections on designing advanced marine vehicles. (A/A, January) 50
- Fry, Peter (JA; see Stevens, Stanley J.)
- Fuhs, Allen E. Density inhomogeneity in a laser cavity due to energy release. (AIAA J, TN) 374
- (JA, EN; see Ball, R. E.)
- Fujimori, Yoshinori and Lin, Y. K. Analysis of airplane response to nonstationary turbulence including wing bending flexibility. (AIAA J) 334
- and Lin, Y. K. Analysis of airplane response to nonstationary turbulence including wing bending flexibility II. (AIAA J, TN) 1343
- Fuller, Arthur L. (JH; see Johnson, Robert S.)
- Fuller, Charles E., III (AIAA J, TN; see Cliff, William C.)
- Fuller, W. H., Jr. (AIAA J, TN; see McCormick, M. P.)
- Gallington, Roger W. Ram wing surface effect boat. (JH) 118
- Gal-or, B. (AIAA J, TN; see Weihs, D.)
- Garg, Subhash Derivatives of eigensolutions for a general matrix. (AIAA J, TN) 1191
- Gatland, Kenneth W. When do we cooperate and when do we compete? (A/A, July) 12
- Gautier, Bernard G. and Ginoux, Jean J. Improvement to Klineberg's method for the calculation of viscous-inviscid interactions in supersonic flow. (AIAA J, TN) 1323
- Gelb, A. and Warren, R. S. Direct statistical analysis of nonlinear systems: CADET. (AIAA J) 689
- Genalis, P. (JH, SA; see Leopold, R.)
- Genin, Joseph (AIAA J; see Ginsberg, Jerry H.)
- Gerhart, Philip M. Heat transfer downstream of attachment of a turbulent supersonic shear layer. (AIAA J, TN) 104
- and Thomas, L. C. Prediction of heat transfer for turbulent boundary layer with pressure gradient. (AIAA J, TN) 552
- Gersten, K. and Gross, J. F. Increase of boundary-layer heat transfer by mass injection. (AIAA J, TN) 738
- Ghose, R. N. Reduction of ILS errors caused by building reflections. (JA) 167
- Reduction of ILS errors caused by building reflections. (JA, ERR) 512
- Giansante, Nicholas (AIAA J; see Berman, Alex)
- Gilreath, H. E. and Fretz, R. T. Bubble track technique for velocity measurement in stratified liquids. (JH, EN) 93
- and Walton, C. R. Frequency response of stationary internal wave probes. (JH, EN) 170
- Ginoux, Jean J. (AIAA J, TN; see Gautier, Bernard G.)
- Ginsberg, Jerry H., Ting, Edward C., and Genin, Joseph Interaction of an air-cushioned vehicle with an elastic guideway. (AIAA J) 980
- Glaser, F. C. (JA; see Cysyz, P.)
- Glaser, Peter E. Solar power via satellite. (A/A, August) 60
- Goldberg, Theodore J. Three-dimensional separation for interaction of shock waves with turbulent boundary layers. (AIAA J, TN) 1573
- Golden, J. O. (JSR, SYN; see Schelden, B. G.)
- Goldman, Robert L. and Obremski, Henry J. Experimental investigation of hypersonic buzz on a delta configuration. (AIAA J, SYN) 1361
- Goldstein, H. W. (JSR; see Pikus, I. M.)
- Goldstein, Raymond (JSR; see Pawlik, Eugene V.)
- Goodman, Theodore R. A criterion for assessing wind-tunnel wall interference at Mach 1. (JA, EN) 695
- Comment on "Added mass of a circular cylinder in contact with a rigid boundary." (JH, TC) 96
- Goodmanson, Lloyd T. and Gratzler, Louis B. Recent advances in aerodynamics for transport aircraft. Part I. (A/A, December) 30
- Goodrich, Winston D. (JSR, SYN; see Bertin, John J.)
- (JSR, EN; see Bertin, John J.)
- Goodson, R. E. (JA; see Seitz, W. R.)
- Goodyear, W. H. A method of numerical integration for trajectories with variational equations. (AIAA J) 1732
- Goodyer, Michael J. and Kilgore, Robert A. High-Reynolds-number cryogenic wind tunnel. (AIAA J) 613
- Goradia, Suresh H. and Colwell, Gene T. Parametric relations for ordinary and confluent turbulent boundary-layer flows. (AIAA J, SYN) 583
- Grabow, R. M. and White, C. O. A surface flow approach for predicting crosshatch patterns. (AIAA J) 841
- (AIAA J; see White, C. O.)
- Graham, Philip A. Comments on "Low-area ratio, thrust-augmenting ejectors." (JA, TC) 701
- Graham, Ralph E. and McDowell, Jerry L. "Simplification of the wing-body interference problem." (JA, ERR) 128
- Graham, Robert F. (JSR; see Davis, John William)
- (AIAA J, TN; see Davis, John William)
- Grantham, William L. (AIAA J; see Dunn, Michael G.)
- Granville, Paul S. Geometrical characteristics of flat-faced bodies of revolution. (JH) 166
- Gratzler, Louis B. (A/A, December; see Goodmanson, Lloyd T.)
- Graumann, Bruce W. (JSR, SYN; see Bertin, John J.)
- Gray, C. R., Malchow, H. L., Merritt, D. C., and Var, R. E. Aerosol monitoring by satellite horizon scanning. (JSR) 71
- Gray, J. Don and Rhudy, R. W. Effects of blunting and cooling on separation of laminar supersonic flow. (AIAA J) 1296

- Greathouse, William K.** Comments on the comment by Philip A. Graham and reply by Paul M. Bevilacqua. (JA, TC) 704
- Greco, J. R.** Simplified tradeoff studies of large hydrofoil ships. (JH, EN) 43
- Green, Michael J.** (AIAA J; see Howe, John T.)
—(AIAA J, ERR; see Howe, John T.)
- Green, Richard H.** (A/A, June; see Wardle, Michael D.)
- Greenberg, R. A.** (AIAA J; see Parmentier, E. M.)
- Greenleaf, William G.** (AIAA J; see Andrus, Jan F.)
- Greenwald, George F.** (JSR, EN; see Sayano, Shoichi)
- Greenwood, S. W.** Capabilities of buoyant-lift vehicles in planetary atmospheres. (JSR, EN) 352
—Comment on "Derivation of the thrust equation from conservation of energy." (JA, TC) 448
- Gregory, Derek P.** Hydrogen transportable storable energy medium. (A/A, August) 38
- Greif, Robert and Chung, Ho** Constrained shell vibrations. (AIAA J, TN) 1049
- Grey, Jerry** (A/A, February; see Layton, J. Preston)
—Prospecting for energy. (A/A, August) 24
—Energy: Lifeblood of our cities. (A/A, December) 52
- Griggs, M.** (AIAA J, SYN; see Acton, L. L.)
- Grisson, J. Lloyd** Measurement of emissions from jet engines in altitude test cells. (JA) 475
- Grittner, Steven F. and Munson, Bruce R.** Aerodynamic characteristics of vehicles traveling in perforated tubes. (AIAA J, TN) 251
- Gross, J. F.** (AIAA J, TN; see Gersten, K.)
- Gruneich, Fredric A.** (AIAA J, TN; see Romero, Jacob B.)
—(JSR, EN; see Wayte, Michael J.)
- Guenther, Rolf A.** (JSR; see Ericsson, Lars E.)
—(JSR; see Reding, J. Peter)
—(JSR, EN; see Ericsson, Lars E.)
—(AIAA J, TN; see Ericsson, Lars E.)
- Guess, Tommy R. and Bert, Charles W.** Material design concepts for filament-wound, graphite-graphite heatshields: further analysis. (JSR, EN) 159
- Gulati, S. T. and Ozaltin, O.** Bending of nonuniform plates with asymmetric thickness variation—inclusion of shear deformation. (AIAA J) 174
- Gupta, Roop N.** Nonlinear problem of a shock-tube interaction-region boundary layer. (AIAA J, TN) 548
- Gupta, V. D.** (JSR, EN; see Rao, B. S.)
- Gustafson, Donald E. and Kriegsmann, Bernard A.** A guidance and navigation system for automatic stationkeeping in Earth orbit. (JSR) 369
- Gutierrez, Orlando A.** (JA; see Stone, James R.)
- Gutshall, R. L.** (JSR; see Mackison, D. L.)
- Gwin, L. B. and Taylor, R. F.** A general method for flutter optimization. (AIAA J) 1613
- Habib, I. S. and Na, T. Y.** Unsteady flow of power-law fluids. (AIAA J, TN) 1588
- Hack, Harvey P.** (JH; see Miller, Boyce E.)
- Hackett, J. E. and Justice, J. L.** Aerodynamics of a fixed ground plane for a powered STOL wind-tunnel model. (JA) 137
- Hadler, J. B.** (JH, SA; see Leopold, R.)
- Hafez, M. M.** (AIAA J, TN; see Cheng, H. K.)
- Haftka, Raphael T. and Robinson, James C.** Effect of out-of-planeness of membrane quadrilateral finite elements. (AIAA J, TN) 742
—and Robinson, James C. Effect of out-of-planeness of membrane quadrilateral finite elements. (AIAA J, ERR) 1792
- Hahn, Mansop and Pfenninger, W.** Prevention of transition over a backward step by suction. (JA) 618
- Haisler, Walter E.** (AIAA J; see Stricklin, James A.)
- Halbach, Carl R., Page, Russell J., and McCaughey, Owen J.** Spacecraft applications of high-temperature electrically conducting ceramics. (JSR, EN) 415
- Hall, B. M., Sholar, M. S., and Allred, A. P.** Estimation of control surface dynamic derivatives from flight test data. (AIAA J) 312
- Hall, G. D.** (AIAA J, SYN; see Acton, L. L.)
- Hall, G. Warren** (JA, TC; see Motyka, Paul R.)
- Hall, J. Gordon, Srinivasan, G., and Rath, Jaipal S.** Laminar boundary layer in noncentered unsteady waves. (AIAA J, TN) 1770
- Hall, W. E., Jr. and Bryson, A. E., Jr.** Inclusion of rotor dynamics in controller design for helicopters. (JA) 200
- Hallquist, John and Snyder, Virgil** Synthesis of two discrete vibratory systems using eigenvalue modification. (AIAA J, TN) 247
- Hamilton, H. Harris** (JSR; see De Jarnette, Fred R.)
- Hammersley, R. J.** (AIAA J; see Jones, B. G.)
- Hammit, A. G.** Comments on "Theory of ion boundary layer." (AIAA J, TC) 1597
- Hampshire, William F., II** (JSR; see Brooks, David R.)
- Hankey, W. L., Jr.** (AIAA J; see Shang, J. S.)
—(AIAA J; see Werle, M. J.)
- Dwoyer, D. L., and Werle, M. J.** Branching solutions for supersonic interacting boundary layers. (AIAA J, TN) 1349
- Hanson, Ronald K. and Flower, William** Verification of a simple relationship for shock-wave reflection in a relaxing gas. (AIAA J, TN) 1777
- Hara, Michio** Effects of magnetic and gravitational torques on spinning satellite attitude. (AIAA J) 1737
- Harris, Gordon L.** (JA; see Davis, Joseph E.)
- Harrison, Judson O., III** (JA, SYN; see Carlson, Joseph M.)
- Hart-Smith, L. J.** Comment on "Film reinforced multifastened mechanical joints in fibrous composites." (JA, TC) 573
- Hartzman, Mark** Stress-strain relations for materials with different tension, compression yield strengths. (AIAA J, TN) 378
- Harvey, D. W.** Drop size distribution resulting from liquid jet injection across a supersonic stream. (AIAA J) 826
- Harvey, J. K.** (AIAA J, TN; see Cogan, D. M.)
- Hassig, Hermann J.** Elimination of degrees of freedom by structural splining. (AIAA J, TN) 405
- Hatt, Fritz** (AIAA J; see Barker, Richard M.)
- Havener, Albert G.** (AIAA J, TN; see Radley, Roger J., Jr.)
- Haviland, George P. and Tiffany, Charles** Understanding the USAF structural integrity program. (A/A, July) 67
- Haviland, John Kenneth and Yoo, Young Sik** Downwash-velocity potential method for oscillating surfaces. (AIAA J) 607
—Integral equation for small perturbations of irrotational flows. (AIAA J, TN) 1778
- Hayduk, Robert J.** Hail damage to typical aircraft surfaces. (JA) 52
- Hayes, Dallas T. and Rotman, Walter** Microwave and electrostatic probe measurements on a blunt re-entry vehicle. (AIAA J) 675
- Heard, Walter L., Jr., Anderson, Melvin S., Anderson, James Kent, and Card, Michael F.** Design, analysis, and tests of a structural prototype viking aeroshell. (JSR) 56
- Heath, R. M.** (JSR; see Schneider, P. J.)
- Heffley, Robert K.** (JA; see Craig, Samuel J.)
- Heine, Walter** (AIAA J; see Salmon, David M.)
- Helms, Vernon T., III** Approximation for maximum centerline heating on lifting entry vehicles. (JSR, EN) 599
- Henderson, Lee H.** (JH; see Sanders, James V.)
- Hepburn, J. D., Chute, F. S., and Vermeulen, F. E.** Visual display of the spatial distribution of colloidal particle beams. (AIAA J, TN) 370
- Herbert, M. V.** Comment on "A compressibility correction for internal flow solutions." (JA, TC) 574
- Herbst, W. B. and Krogull, B.** Design for air combat. (JA) 247
- Herendeen, D. L.** (AIAA J; see Zelazny, S. W.)
- Hermance, Clarke E.** Ignition analysis of adiabatic, homogeneous systems including reactant consumption. (AIAA J) 1728
- Herrington, H. James** (AIAA J, SA; see Mellor, George L.)
- Herron, Bill G., Bayless, John R., and Worden, John D.** High-voltage solar array technology. (JSR) 457
- Hersh, Michael S. and Featherby, Michael** Joining of boron/aluminum composites. (JA) 99
- Hertzberg, A.** (AIAA J, SYN; see Buonadonna, Victor R.)
- Hesketh, W. C.** (AIAA J, SYN; see Acton, L. L.)
- Hess, J. R., Jr.** (JA; see Anderson, D. C.)
- Hess, Robert W.** (JA; see Chipman, Richard R.)
- Hester, S. D.** (AIAA J; see Mandl, A.)
- Hickman, Roy Scott and Kyser, James B.** Refinements in high-Reynolds number shock-tunnel technology. (AIAA J) 961
- Hill, Jacques, A. F.** (JSR, EN; see Jarvinen, Philip O.)
—and Jarvinen, Philip O. Pumping capacity of venturi exhausts. (JA, EN) 444
- Hillard, Mervin E., Jr., Emory, M. Lawrence, and Bandy, A. R.** Remote sensing of CF₄ number density in a hypersonic flow using Raman scattering. (AIAA J, SYN) 775
- Hillery, R. D.** (JA; see Lyon, T. A.)
- Hirano, Toshisuke, Shiratori, Hirozo, and Tsuji, Hiroshi** Ion current at the forward stagnation region of an electrically conducting body. (AIAA J, TN) 887
—(AIAA J, TN; see Tsuji, Hiroshi)
- Hobbs, Robert W.** (A/A, October; see Maran, Stephen P.)
- Hoblit, Frederic M.** (JA; see Stauffer, Warren A.)
- Hodapp, Albert E., Jr.** (JSR; see Clark, Edward L., Jr.)
- Hoepfner, David W.** (JA; see Krupp, William E.)
- Hofland, R.** (AIAA J; see Mirels, H.)
- Hohenemser, Kurt H. and Crews, S. T.** Model tests on unsteady rotor wake effects. (JA, EN) 58
—(JA, EN; see Crews, S. T.)
- Holmes, Leroy A.** (AIAA J, SYN; see Krane, Robert J.)
- Hopkins, Edward J.** (AIAA J, TN; see Keener, Earl R.)
- Hornung, H. G.** (AIAA J, SYN; see Ebrahim, N. A.)
- Houbolt, John C.** Atmospheric turbulence. (AIAA J, Dryden Research Lecture) 421
- Hough, Gary R.** Remarks on vortex-lattice methods. (JA, EN) 314
- Houwink, Roel and Richards, Bryan E.** Experimental study of a high lift re-entry vehicle configuration. (AIAA J, TN) 749
- Howe, John T. and Green, Michael J.** Analysis of sublimation-cooled coated mirrors in convective and radiative environments. (AIAA J) 80
—Green, Michael J. and Weston, Kenneth C. Thermal shielding by subliming volume reflectors in convective and intense radiative environments. (AIAA J) 989
—Green, Michael J. and Weston, Kenneth C. Thermal shielding by subliming volume reflectors in convective and intense radiative environments. (AIAA J, ERR) 1600
—(AIAA J, TN; see Lincoln, Kenneth A.)
- Howell, John R.** Monte Carlo treatment of data uncertainties in thermal analysis. (JSR) 411
- Howell, L. J., Kuchta, B. J., and Barnes, R. E.** Nonstationary ascent

- wind analysis. (JSR, SYN) 755
- Hsieh, Chia-Lung and Seader, J. D.** Surface ablation of silica-reinforced composites. (AIAA J) 1181
- and **Seader, J. D.** Similarity analysis for the surface ablation of silica-reinforced composites. (JSR) 797
- Hsu, C. T. and DeJode, A. D.** Inviscid swirling flows through a choked nozzle. (AIAA J, TN) 1564
- Hua, Hsichun M.** A finite-element method for calculating aerodynamic coefficients of a subsonic airplane. (JA) 422
- Huang, Chi-lung** Postbuckling of an annulus. (AIAA J) 1608
- (AIAA J, TN; see Woo, H. K.)
- Huang, N. C.** Inelastic buckling of eccentrically loaded columns. (AIAA J) 974
- Huber, Paul W.** (AIAA J, SYN; see Evans, J. S.)
- Hudson, F. J.** (A/A, May; see Poupard, R. E.)
- Huggins, Raymond W.** Electrostatic probe data from Bell Sphere B09. (AIAA J, SYN) 257
- Hughes, P. C.** (JSR; see Cherkas, D. B.)
- Hui, W. H.** Methods for calculating nonlinear flows with attached shock waves over conical wings. (AIAA J, TN) 1443
- Hunt, B. L.** An attempted improvement of the method of integral relations for a blunt body in a supersonic flow. (AIAA J, TN) 1575
- Hunt, D. A.** Velocity of a stress wave superimposed on the initial plastic stress state of a rod. (AIAA J, TN) 1342
- Hunt, Jack R., Levitt, Ben B., Morse, Francis, Stehling, Kurt R., and Vaeth, J. Gordon** The many uses of the dirigible. (A/A, October) 58
- Hunter, A. M., II** (AIAA J; see Schreiber, P. W.)
- Huseyin, K.** (AIAA J, TN; see Plaut, R. H.)
- Hussein, M. Fathy and Tabakoff, W.** Dynamic behavior of solid particles suspended by polluted flow in a turbine stage. (JA) 434
- Hutchinson, C. E., D'Appolito, J. A., and Bongiovanni, P. L.** Minimax design of Kalman-like filters in the presence of large-parameter uncertainties. (AIAA J) 694
- Huzar, Stephen** (JSR; see Kana, Daniel D.)
- Hyman, J., Jr.** Development of a 5-cm flight-qualified mercury ion thruster. (JSR) 503
- Hymas, C. E., Cavin, R. K., III, and Colunga, D.** Neighboring extremals for optimal control problems. (AIAA J) 1101
- Ichikawa, Teruo** (AIAA J; see Isogai, Koji)
- Ii, Jack Morito and Rowe, William S.** Unsteady aerodynamics of nonplanar wings and wing-tail configurations of elastic flight vehicles in supersonic flight. (JA) 19
- Imber, Murray** A temperature extrapolation method for hollow cylinders. (AIAA J, TN) 117
- Incrocci, Thomas P.** (JA; see Scoggins, James R.)
- Incropera, Frank P.** (AIAA J; see Scott, Robert K.)
- (AIAA J, TN; see Lee, J. B.)
- Ingelfinger, A. L.** Space life-support and environmental control: Systems for the '70s. (A/A, May) 61
- Inger, G. R. and Dutt, B.** Surface curvature and lateral pressure gradient effects on laminar boundary-layer separation. (JA) 207
- Comment on "Skin friction on porous surfaces calculated by a simple integral method." (AIAA J, TC) 1356
- Ingram, Charles W.** (AIAA J, SYN; see Martin, James M.)
- Inouye, Mamoru** (AIAA J; see Rizzi, Arthur W.)
- Intrieri, Peter F. and Malcolm, Gerald N.** Ballistic range investigation of sonic-boom overpressures in water. (AIAA J) 510
- Inutake, Masaaki** (AIAA J, SYN; see Kuriki, Kyoichi)
- Irons, Alexander S.** (A/A, June; see Wardle, Michael D.)
- Irons, Bruce M. and Razaque, Abdur** Introduction of shear deformations into a thin plate displacement formulation. (AIAA J, TN) 1438
- Isaac, J. J. and Cookson, R. A.** Supersonic combustion aid for liquid and gaseous fuels. (AIAA J, TN) 1036
- Isaacson, L. K. and Peterson, R. L.** Selected statistical properties in the inner region of a transpired turbulent boundary layer. (AIAA J, TN) 1758
- Ishii, Ryuji** Entropy in nonequilibrium nozzle flows of vibrationally relaxing diatomic gases. (AIAA J, SYN) 137
- Isogai, Koji and Ichikawa, Teruo** Lifting-surface theory for a wing oscillating in yaw and sideslip with an angle of attack. (AIAA J) 599
- Iversen, J. D.** (AIAA J, SYN; see Power, H. L.)
- Correlation of Magnus force data for slender spinning cylinders. (JSR) 268
- Ivy, George W.** (JSR, EN; see Kirby, Cecil E.)
- Iyengar, S.** (JSR; see Orlik-Rückemann, K. J.)
- (JSR, EN; see Orlik-Rückemann, K. J.)
- Jackson, Frederick A.** (JSR, EN; see Zafran, Sidney)
- Jacobsen, R. A. and Eubank, H. P.** Evidence of fireball phenomena in hollow cathode of electron bombardment ion thrusters. (AIAA J, TN) 399
- Jacobson, Ira D. and Morton, J. B.** Influence of boundary-layer stability on the Magnus effect. (AIAA J, SYN) 8
- and **Kuhlthau, A. Robert** Determining STOL ride quality criteria—passenger acceptance. (JA) 163
- Jaffe, N. A.** Droplet dynamics in a hypersonic shock layer. (AIAA J, TN) 1562
- Jaffe, Peter** Nonplanar tests using the wind-tunnel free-flight technique. (JSR) 435
- Jakubowski, Antoni K. and Lewis, Clark H.** Experimental study of supersonic laminar base flow with and without suction. (AIAA J) 1670
- Jarvinen, Philip O.** Aircraft wing-tip vortex modification. (JA, EN) 63
- and **Hill, Jacques A. F.** Penetration of retrorocket exhausts into subsonic counterflows. (JSR, EN) 85
- Wind shear payload support system. (JA, EN) 189
- (JA, EN; see Hill, Jacques A. F.)
- Jazwinski, Andrew H.** Nonlinear and adaptive estimation in re-entry. (AIAA J) 922
- Jeffrey, N. E. and Eames, M. C.** Canadian advances in surface-piercing hydrofoils. (JH) 85
- Jeng, D. R. and Williams, Donald W.** Transpiration cooling in three-dimensional laminar boundary-layer flow near a stagnation point. (AIAA J, TN) 1560
- Jezewski, Donald J.** N-Burn optimal analytic trajectories. (AIAA J) 1373
- Joglekar, A. M., Phadke, M. S., and Wu, S. M.** Iterative modeling of interior ballistics of small arms. (JSR) 450
- Johns, D. J.** Self-weight-buckling of vertical circular cylindrical shells. (AIAA J, TN) 392
- Johnson, C. D.** Optimal desaturation of momentum exchange control systems. (AIAA J, ERR) 768
- Johnson, C. P.** (AIAA J, TN; see Oden, J. T.)
- Johnson, David A.** (AIAA J; see Campion, Guy)
- Johnson, David B.** Precession rate matching for a space station in orbit about an oblate planet. (JSR, EN) 467
- Johnson, Dennis A.** Insensitivity of single particle time domain measurements to laser velocimeter "Doppler" ambiguity. (AIAA J, TN) 890
- Johnson, Donald E. and Boucher, Roland J.** Edge buckling of cylindrical shells with low-in-plane shear moduli. (AIAA J, TN) 551
- Johnson, Francis S.** SSTs, ozone, and skin cancer. (A/A, July) 16
- Johnson, Gail R.** (JSR, EN; see Schappell, Roger T.)
- Johnson, Ivan L., Jr. and Kamm, James L.** Accelerating one-dimensional searches. (AIAA J, TN) 757
- and **Kamm, James L.** Accelerating one-dimensional searches. (AIAA J, ERR) 1456
- Johnson, R. A.** (AIAA J, TC; see de Boer, P. C. T.)
- Johnson, Rodney W.** (A/A, May; see Naugle, John E.)
- Johnson, Ronald A.** (JA, EN; see Crimi, Peter)
- Johnson, R. S.** (JH, SA; see Leopold, R.)
- **Fuller, Arthur L., Claffey, James A., Bjorklund, Fritz R., and Thompson, Bernard M.** Man-computer graphics in preliminary ship design. (JH) 11
- Johnson, Wayne** A perturbation solution of helicopter rotor flapping stability. (JA, SYN) 257
- Jones, B. G., Planchon, H. P., and Hammersley, R. J.** Turbulent correlation measurements in a two-stream mixing layer. (AIAA J) 1146
- Jones, Robert M.** Buckling and vibration of unsymmetrically laminated cross-ply rectangular plates. (AIAA J) 1626
- Jones, W. Linwood** (AIAA J; see Kang, Sang-Wook)
- Jones, W. P. and Moore, Jimmie A.** Simplified aerodynamic theory of oscillating thin surfaces in subsonic flow. (AIAA J) 1305
- Jordan, James F.** (JSR; see Rourke, Kenneth H.)
- Jordan, Peter F.** Exact solutions for lifting surfaces. (AIAA J) 1123
- Structure of Betz vortex cores. (JA, EN) 691
- Buckling of toroidal shells under hydrostatic pressure. (AIAA J, TN) 1439
- Jorgensen, Leland H.** Estimation of aerodynamics for slender bodies alone and with lifting surfaces at α 's from 0° to 90° . (AIAA J, TN) 409
- Junge, Hinrich J. and Sprengel, Uwe W.** Direct thrust measurements and beam diagnostics on an 18-cm Kaufman ion thruster. (JSR) 101
- Justice, J. L.** (JA; see Hackett, J. E.)
- Kadushin, I.** Conditions for stability of an ablating symmetric rolling re-entry vehicle. (JSR, EN) 808
- Kaestner, Peter C.** (AIAA J, TN; see Eaton, Roger R.)
- Kahn, Stanley D., Oskay, Vural, and Whiteside, John** Verification of ground test data by instrumented flight test of an artillery shell. (JA) 143
- Kamat, M. P.** (AIAA J, SYN; see Simitses, G. J.)
- Kaminer, H., Jr.** (AIAA J, TC; see Rhodes, C. A.)
- Kamm, James L.** (AIAA J, TN; see Johnson, Ivan L., Jr.)
- (AIAA J, ERR; see Johnson, Ivan L., Jr.)
- Kana, Daniel D. and Huzar, Stephen** Synthesis of shuttle vehicle damping using substructure test results. (JSR) 790
- Kane, Edward J.** Review of current sonic boom studies. (JA) 395
- Kane T. R.** (JSR; see Cronin, R. H.)
- (AIAA J; see Teixeira-Filho, Djalma R.)
- Kang, Sang-Wook, Jones, W. Linwood, and Dunn, Michael G.** Theoretical and measured electron-density distributions at high altitudes. (AIAA J) 141
- Kao, Jao-Shiun** Differential equations for asymmetric bending of circular sandwich plates. (AIAA J, TN) 573
- Kaplan, A. E.** (AIAA J; see Kiel, R. E.)
- Kaplan, Marshall H.** All-electric thruster control of a geostationary communications satellite. (JSR) 119
- and **Cenker, Robert J.** Control of spin ambiguity during reorientation of an energy dissipating body. (JSR) 757

- Kappus, Hans-Peter F.** (JA; see Triplett, William E.)
- Karnik, K. S.** (JSR, EN; see Rao, B. S.)
- Kase, P. G.** Computerized meteoroid protection system design for an outer-planet spacecraft. (JSR, SYN) 625
- Kaufman, Bernard and Dasenbrock, Robert** Semianalytic theory of long-term behavior of Earth and lunar orbiters. (JSR) 377
- Kaufman, John W.** (JSR; see Susko, Michael)
- Kaufman, Louis G., II, Korkegi, Robert H., and Morton, Leo C.** Shock impingement caused by boundary-layer separation ahead of blunt fins. (AIAA J, SYN) 1363
- Kaufman, Stanley** Equations of motion of the lunar roving vehicle. (JSR) 66
- Kaza, Krishna Rao Venkata** Effect of steady state coning angle and damping on whirl flutter stability. (JA) 664
- Kazin, S. B.** (JA; see Benzakein, M. J.)
- Keat, James E.** Supplementary active stabilization of nonrigid gravity gradient satellites. (JSR, SYN) 97
- Keener, Earl R. and Hopkins, Edward J.** Van Driest generalization applied to turbulent skin friction and velocity profiles measured on the wall of a Mach 7.4 wind tunnel. (AIAA J, TN) 1784
- Kelley, Henry J. and Lefton, Leon** Differential turns. (AIAA J) 858
- and **Sullivan, Henry C.** Roll-modulated lifting entry optimization. (AIAA J) 913
- Kelly, Arnold J.** (JSR; see Ludwig, Dennis E.)
- Kelly, P. J., McKee, H. B., and Patten, T. C.** Cryogenic liquid O₂/H₂ reaction control systems for space shuttle. (JSR) 496
- Kemp, Nelson H.** Closed-form lift and moment for Osborne's unsteady thin-airfoil theory. (AIAA J, TC) 1358
- Kendle, D. W.** (JSR; see Cady, E. C.)
- Kenworthy, Michael and Schetz, Joseph A.** Experimental study of slot injection into a supersonic stream. (AIAA J, SYN) 585
- Kerzner, Harold** (AIAA J; see Krier, Herman)
- Kessler, T. J.** (AIAA J; see Kriel, R. E.)
- Khatua, T. P. and Cheung, Y. K.** Stability analysis of multilayer sandwich structures. (AIAA J, SYN) 1233
- Kibler, James F.** Round trip Mars missions using looping trajectories in the 1980-2000 time period. (JSR, EN) 686
- Kidd, Philip W.** (JSR, EN; see Zafran, Sidney)
- Kidder, Robert L.** Reduction of structural frequency equations. (AIAA J, TN) 892
- Kiel, R. E., Bergeron, R. F., Jr., Kessler, T. J., and Kaplan, A. E.** Boundary-layer plasma of a re-entry vehicle: A comparison of prediction models and flight measurements. (AIAA J) 1235
- Kilgore, Robert A.** (AIAA J; see Goodyer, Michael J.)
- Kilmer, E. E.** Plastic bonded, thermally stable explosive for an Apollo experiment. (JSR) 463
- Kim, H. W.** (AIAA J; see Yang, T. Y.)
- Kim, Thomas J.** Plane stress analysis of an annular disk with distorted inner hold. (AIAA J, ERR) 768
- Kimura, Itsuro and Kumazawa, Ryuhei** A low-power MPD thruster of duoplasmatron type. (JSR, EN) 472
- King, W. S.** (AIAA J; see Mirels, H.)
- Kinslow, Max** An analytical study of hypersonic inlets in free molecule flow. (AIAA J, TN) 1205
- Kirby, Cecil E. and Ivy, George W.** Flow areas for series-parallel compartment venting to satisfy pressure differential requirements. (JSR, EN) 350
- Kirmser, P. G.** (AIAA J, TN; see Woo, H. K.)
- Kirsch, A. A.** A proposed entry vehicle dynamic model. (JSR) 767
- Kisslinger, R. L. and Vetsch, G. J.** Synthesis of a FBW system for an F-4. (JA) 414
- Klimas, Paul C.** Helium bubble survey of an opening parachute flowfield. (JA, EN) 567
- Klineberg, John M.** (AIAA J; see Steger, Joseph L.)
- Klosner, Jerome M. and Longhitano, Ronald** Nonlinear dynamics of hemispherical shells. (AIAA J) 1117
- Klujber, Frank** Development of sonic inlets for turbofan engines. (JA) 579
- Knepper, Donald P.** (JA, EN; see Smetana, Frederick O.)
- Knight, Charles J.** (AIAA J, SYN; see Buonadonna, Victor R.)
- Knight, Charles V.** Experimental investigation of two-dimensional, supersonic flow impingement on a normal surface. (AIAA J, TN) 233
- Knott, Joseph** (AIAA J, TN; see Anderson, John D., Jr.)
- Kobiske, Michael** (AIAA J; see Bratanow, Theodore)
- Kollrack, R. and Aceto, L. D.** Nitric oxide formation in gas turbine combustors. (AIAA J) 664
- Koncsek, Joseph L.** (JA; see Syberg, Jan)
- Konish, H. J., Jr., Swedlow, J. L., and Cruse, T. A.** Fracture phenomena in advanced fiber composite materials. (AIAA J) 40
- Korkegi, Robert H.** (AIAA J, SYN; see Kaufman, Louis G., II)
- A simple correlation for incipient turbulent boundary-layer separation due to a skewed shock wave. (AIAA J, TN) 1578
- Koziaik, W. W. and Sullivan, P. A.** Interaction of a laminar hypersonic boundary layer with a corner expansion wave. (AIAA J, SYN) 1057
- (AIAA J, TN; see Sullivan, P. A.)
- Krabill, W. B.** (AIAA J; see Aldrich, G. T.)
- Kraff, Louis, Jr.** A space and missile test center of the future. (A/A, June) 64
- Kraft, E. M. and Lo, C. F.** A general solution for lift interference in rectangular ventilated wind tunnels. (AIAA J, SYN) 1365
- Krane, Robert J. and Holmes, Leroy A.** Experimental study of the effects of low bond number sloshing on thermal stratification. (AIAA J, SYN) 1219
- Kreindler, Eliezer** Optimality of proportional navigation. (AIAA J, TN) 878
- Kriegsman, Bernard A.** (JSR; see Gustafson, Donald E.)
- Krier, Herman and Kerzner, Harold** Analysis of the chemically reacting laminar boundary layer during hybrid combustion. (AIAA J) 1691
- Krishnaswamy, T. N., Rao, G. N. V., and Reddy, K. R.** Blockage corrections for large bluff bodies near a wall in a closed jet wind tunnel. (JA, EN) 634
- Krogull, B.** (JA; see Herbst, W. B.)
- Kruger, C. H.** (AIAA J; see Evans, R. M.)
- Krupp, William E. and Hoeppner, David W.** Fracture mechanics applications in materials selection, fabrication sequencing and inspection. (JA) 682
- Kuchta, B. J.** (JSR, SYN; see Howell, L. J.)
- Kuhlthau, A. Robert** (JA; see Jacobson, Ira D.)
- Kumar, K.** (AIAA J; see Dokainish, M. A.)
- Kumazawa, Ryuhei** (JSR, EN; see Kimura, Itsuro)
- Kunio, T.** (JSR, EN; see Toda, Y.)
- Kunukasseril, Vincent X.** (AIAA J; see Swamidass, A. S. J.)
- (AIAA J; see Palaninathan, R.)
- Kuo, Ching-chiang, Morino, Luigi, and Dugundji, John** Nonlinear interaction of panel flutter with harmonic forcing excitation. (AIAA J, SYN) 419
- Kuo, K. K.** (JSR; see Turk, S. L.)
- **Vichnevetsky, R., and Summerfield M.** Theory of flame front propagation in porous propellant charges under confinement. (AIAA J) 444
- (AIAA J; see Peretz, A.)
- Kuriki, Kyoichi and Inutake, Masaaki** Establishment of quasi-steady operation in a pulsed MPD arcjet. (AIAA J, SYN) 133
- Kurkov, Anatole P.** (AIAA J, SYN; see Burrows, Marshall C.)
- Kurn, Arthur G.** Comment on "Reduction of noise from supersonic jet flows." (AIAA J, TC) 254
- Kush, Edward A. Jr. and Schetz, Joseph A.** Liquid jet injection into a supersonic flow. (AIAA J, SYN) 1223
- Kutler, Paul** (AIAA J; see Warming, R. F.)
- **Warming, R. F., and Lomax, Harvard** Computation of space shuttle flowfields using noncentered finite-difference schemes. (AIAA J) 196
- **Reinhardt, W. A., and Warming, R. F.** Multishocked, three-dimensional supersonic flowfields with real gas effects. (AIAA J) 657
- Kyser, James B.** (AIAA J; see Hickman, Roy Scott)
- Labbe, Jean** (JSR; see Le Grives, Emile)
- LaBerge, J. G.** (JSR; see Orlik-Ruckemann, K. J.)
- Laderman, A. J.** (AIAA J, TN; see Demetriades, A.)
- LaFavor, S. A.** (JA; see Cyszcz, P.)
- Laganelli, Anthony L. and Fogaroli, Richard P.** Downstream influence of film-cooling in a high-speed laminar boundary layer. (AIAA J, SYN) 581
- Lai, Ying-San** Transient stresses in laminated structures. (AIAA J, TN) 1761
- Laitone, E. V. and Lin, Wen-Fan** Stability criteria for accelerating and decelerating aircraft. (JA, SYN) 129
- Lakshmikantham, C.** (AIAA J; see Wan, F. Y. M.)
- Lam, T. T.** (AIAA J; see Armaly, B. F.)
- Lamb, J. Parker** (JSR, EN; see Bertin, John J.)
- Lan, Chuan-Tau** An improved nonlinear lifting-line theory. (AIAA J, TN) 739
- Lancaster, E. R.** Preliminary orbit determination for lunar satellites. (AIAA J, TN) 558
- Lancaster, J. E. and Allemann, R. A.** Numerical analysis of the asymptotic two-point boundary value solution for N-body trajectories. (AIAA J, SYN) 259
- Landy, Robert J.** (JA; see Triplett, William E.)
- Latham, Eldon A. and Sorensen, Norman E.** Method for increasing wind tunnel Mach number for large-scale inlet testing. (JA, SYN) 577
- (JA; see Sorensen, Norman E.)
- Laurenson, Robert M., Melliore, Ronald A., and McGehee, John R.** Analysis of legged landers for the survivable soft landing of instrument payloads. (JSR) 208
- Lavan, Zalman** (AIAA J; see Shavit, Gideon)
- Laws, E. M.** (AIAA J; see Livesey, J. L.)
- Layton, J. Preston and Grey, Jerry** New space transportation systems. (A/A, February) 12
- Lazdinis, S. S. and Carpenter, R. F.** Nitrogen temperature determination in arc tunnel airflows. (AIAA J, TN) 1416
- Lee, B. G. and Boain, R. J.** Propellant requirements for midcourse velocity corrections. (JSR) 779
- Lee, H. F. and Petrie, S. L.** Electron beam visualization in hypersonic airflows. (JA) 239
- Lee, J. B., Incropera, F. P., and Peterson, R. C.** Measurement of arc radiation for selected spectral regions. (AIAA J, TN) 1455
- Lee, Teh H.** A dynamic analysis for elastic structures interacting with rotating machinery. (JA) 45
- Lee, W. H.** (A/A, May; see Poupard, R. E.)
- Leech, John W., Witmer, Emmett A., and Morino, Luigi** Dynamically-induced large deformations of multilayer, variable thickness shells. (AIAA J, TN) 1189

- Lefton, Leon** (AIAA J; see Kelley, Henry J.)
- Le Grives, Emile and Labbe, Jean** French research on cesium contact ion sources. (JSR) 113
- Lemmon, E. Clark and Coleman, Hugh W.** Turbulent heat transfer to a fin leading edge—flight test results. (AIAA J, TN) 571
—(JSR, EN; see Coleman, Hugh W.)
- Lengyel, L. L.** Exact steady-state analogy of transient gas compression by coalescing waves. (AIAA J, TN) 1347
- Leopold, R., Johnson, R. S., Hadler, J. B., and Genalis, P.** Low-water plane multihull ship principles, status, and plans for naval development. (JH, SA) 49
- Lepore, J. A. and Stoltz, R. A.** Stability of a stochastically excited nonlinear cylindrical shell. (AIAA J) 801
- Lessmann, R. C.** (AIAA J; see White, F. M.)
- and Cristoph, George H.** Calculation of turbulent skin friction on a rotating disk. (AIAA J, TN) 542
- and Christoph, George H.** Calculation of turbulent skin friction on a rotating disk. (AIAA J, ERR) 1600
—(AIAA J, TN; see Christoph, George H.)
- Levin, Eugene** The future shock of information networks. (A/A, November) 52
- Levitt, Ben B.** (A/A, October; see Hunt, Jack R.)
- Lewis, Clark H.** (AIAA J; see Jakubowski, Antoni K.)
- Lewolt, John G.** (JA; see Stauffer, Warren A.)
- Libby, Paul A.** (AIAA J; see Wu, Peter)
- (AIAA J, TN; see Wu, Peter)
- and Scragg, Carl A.** Diffusion of heat from a line source downstream of a turbulence grid. (AIAA J, TN) 562
- Liebeck, Robert H.** A class of airfoils designed for high lift in incompressible flow. (JA) 610
- and Smyth, D. N.** Study of slat-airfoil combinations using computer graphics. (JA, EN) 254
- Lieblein, S.** (JA; see Diedrich, J. H.)
- Yuska, J. A., and Diedrich, J. H.** Performance characteristics of a model VTOL lift fan in cross flow. (JA) 131
- Likins, Peter W.** (JSR, SYN; see Vanyo, James P.)
- Barbera, Frank J., and Baddeley, Victor** Mathematical modeling of spinning elastic bodies for modal analysis. (AIAA J) 1251
—(AIAA J; see Barbera, Frank J.)
- (JSR, EN; see Schneider, C. C., Jr.)
- Lilley, David G.** Prediction of inert turbulent swirl flows. (AIAA J) 955
- Lin, J. T.** Analysis of gas flow through a multilayer insulation system. (AIAA J) 995
- Lin, Yu-Jyi** (AIAA J; see Wang, James Ting-Shun)
- Lin, Y. K.** (AIAA J; see Fujimori, Yoshinori)
- (AIAA J, TN; see Fujimori, Yoshinori)
- Lin, Wen-Fan** (JA, SYN; see Laitone, E. V.)
- Lincoln, Kenneth A., Howe, John T., and Liu, Tsong-Mou** Assessment of chemical nonequilibrium for massively ablating graphite. (AIAA J, TN) 1198
- List, Bernard** DAIS: A major crossroad in the development of avionic systems. (A/A, January) 55
- Liu, Chang-yu and Dai, Yau-tien** Axisymmetrical turbulent boundary layer along a slender cylinder. (JH, EN) 133
- Asymptotic suction flow of power-law fluids. (JH, EN) 135
- Liu, T.-M. and Nachtseim, P. R.** Numerical stability of boundary layers with massive blowing. (AIAA J, TN) 1197
—(AIAA J, TN; see Lincoln, Kenneth A.)
- and Nachtseim, Philip R.** Shooting method for solution of boundary-layer flows with massive blowing. (AIAA J, TN) 1584
- Livesey, J. L. and Laws, E. M.** Simulation of velocity profiles by shaped gauze screens. (AIAA J) 184
- Livingston, John M.** (JSR; see Trautwein, Wolfgang)
- Lo, C. F.** (AIAA J, SYN; see Kraft, E. M.)
- Lomax, Harvard** (AIAA J; see Warming, R. F.)
(AIAA J; see Kutler, Paul)
- Long, J. E.** (A/A, October; see Rasool, S. I.)
- Longhitano, Ronald** (AIAA J; see Klosner, Jerome M.)
- Longman, Richard W.** Stable tumbling motions of a dual-spin satellite subject to gravitational torques. (AIAA J) 916
- Lou, Y. S. and Barton, L. O.** Entrance region heat transfer between parallel plates with uniform wall temperature. (AIAA J, TN) 393
- Love, Eugene S.** Advanced technology and the space shuttle. (von Karman Lecture; A/A, February) 30
- Lu, Y. P., Douglas, B. E., and Thomas, E. V.** Mechanical impedance of damped three-layered sandwich rings. (AIAA J) 300
- Luckert, Hans-Joachim** Static stability and drag studies for bodies of revolution in supersonic flow. (JSR) 703
- Ludwig, C. B.** (AIAA J, SYN; see Acton, L. L.)
- Ludwig, Dennis E. and Kelly, Arnold J.** Optimal quasi-steady plasma thruster system characteristics. (JSR) 165
- Lull, W. R.** (JA, EN; see Cross K. R.)
- Lundell, John H. and Dickey, Robert R.** Ablation of ATJ graphite at high temperatures. (AIAA J) 216
- Lutze, Frederick H.** (JA, TC; see Cliff, Eugene M.)
- Lyon, T. A. and Hillery, R. D.** Geared fan engine systems—Their advantages and potential reliability. (JA) 361
- Lyu, Chung-Hsein** (AIAA J, TN; see Peddieson, John, Jr.)
- MacCallum, Douglas H.** ERTS data for everyman. (A/A, April) 43
- Macha, John M.** (JSR; see Norton, David J.)
- Mackison, D. L., Gutschall, R. L., and Volpe, F.** Star scanner attitude determination for the OSO-7 spacecraft. (JSR) 262
- Madson, J. M.** (AIAA J, TN; see Mullen, J. H.)
- Mahig, J.** Effect of sweep angle and drag on the flutter speed of hydrofoils. (JH) 104
- Maiti, Manoranjan** Stresses in anisotropic nonhomogeneous cylinders. (AIAA J, TN) 1326
- Maitra, Manoj, Majumdar, Kamalesh, and Das, Aniruddha** Unified plastic yield criterion for ductile solids. (AIAA J, TN) 1428
- Majumdar, Kamalesh** (AIAA J, TN; see Maitra, Manoj)
- Malchow, H. L.** (JSR; see Gray, C. R.)
- Malcolm, Gerald N.** (AIAA J; see Intrieri, Peter F.)
- Malkmus, W.** (AIAA J, SYN; see Acton, L. L.)
- Mamada, Hiroshi and Ando, Shigenori** Minimum induced drag of a hemi-circular ground effect wing. (JA) 660
- Mandl, A., Fogelson, S. A., and Hester, S. D.** Chemical modeling experimental facility. (AIAA J) 1711
- Manheimer-Timnat, Y.** (JSR, SYN; see Zeierman, I.)
- Maples, Glennon** (JH; see Amos, Robert G.)
- Maran, Stephen P. and Hobbs, Robert W.** A great comet coming KOHOUTEK. (A/A, October) 48
- Marchese, V. P., Rakowsky, E. L., and Bement, L. J.** A fluidic sounding rocket motor ignition system. (JSR) 731
- Marchman, J. F., III** (JA; see Mason, W. H.)
- Marinescu, Al** Isoperimetric formulation for some problems of optimization of the entry into atmosphere. (AIAA J, TN) 1768
- Marlowe, M. B.** (AIAA J, TN; see Almroth, B. O.)
- Marsh, H. E., Jr. and Udlock, D. E.** Formulating propellants for fully case-bonded end-burning motors. (JSR, ERR) 288
- Marshall, Billy W. and Trujillo, Amado A.** Experimental evaluation of a roll control system for a shrouded cone. (JSR) 362
- Marshall, Franklin L.** Prediction of inlet duct overpressures resulting from engine surge. (JA) 274
- Marshall, Larry R.** (JH; see Nayfeh, Ali H.)
- Martellucci, A., Chaump, L., Rogers, D., and Smith, D.** Experimental determination of the aeroacoustic environment about a slender cone. (AIAA J) 635
- Martin, James A.** Optimum stage weight distribution of multistage rockets. (AIAA J, TC) 255
- Martin, James M. and Ingram, Charles W.** Experimental correlation between the flow and Magnus characteristics of a spinning ogive-nose cylinder. (AIAA J, SYN) 901
- Martin, S. C.** (JA; see Davies, W. D. T.)
- Mason, W. H. and Marchman, J. F., III** Far-field structure of aircraft wake turbulence. (JA) 86
- Masoud, Tariq** (AIAA J, TN; see Amick, James L.)
- Masson, Bruce S.** (AIAA J; see Alber, Irwin E.)
- Mateer, George G.** The effect of angle of attack on boundary-layer transition on cones. (AIAA J, ERR) 256
- Matkins, E. H.** (JSR; see Bauer, R. C.)
- Matsuzaki, Yuji** Natural vibration and flutter of cylindrically curved panels. (AIAA J, SYN) 771
- Matteson, Thomas D.** (A/A, August; see Smith, Anthony M.)
- Mau, Sheng-Taur, Pian, Theodore H. H., and Tong, Pin** Vibration analysis of laminated plates and shells by a hybrid stress element. (AIAA J, TN) 1450
- Maxwell, Barry R. and Wessling, F. C.** Approximation to the collisional-radiative recombination coefficient in a partially ionized gas. (AIAA J, TN) 1048
- McAssey, Edward, Jr.** (AIAA J, TN; see Sherman, Arthur)
- McCaughy, Owen J.** (JSR, EN; see Halbach, Carl R.)
- McCloskey, John W.** Some aircraft flight conditions relating to LO-LOCAT. (JA) 244
- McCormick, M. P. and Fuller, W. H., Jr.** Lidar techniques for pollution studies. (AIAA J, TN) 244
- McCroskey, W. J.** Inviscid flowfield of an unsteady airfoil. (AIAA J) 1130
- McDermott, A. M.** Hyperbolic orbit equations with asymptote-based coordinates. (JSR, SYN) 5
- McDevitt, John B.** Effect of thermally expanding surfaces on aerodynamic roll torques for cones. (AIAA J) 505
- McDowell, Jerry L.** (JA, ERR; see Graham, Ralph E.)
- McGehee, John R.** (JSR; see Laurensen, Robert M.)
- McGregor, R. C., Wright, A. J., and Swales, P. D.** Explanation of forces on a surface piercing strut after ventilation. (JH, EN) 132
- McIntosh, Samuel C., Jr.** Effect of hypersonic nonlinear aerodynamic loading on panel flutter. (AIAA J) 29
- McKee, H. B.** (JSR; see Kelly, P. J.)
- McKinney, Howard F. and Dutton, Richard A.** A facility for long-term ion thruster system testing. (JSR) 42
- McKinzie, Daniel J., Jr.** Plastic set of smooth large radii of curvature thermal conductance specimens at light loads. (AIAA J, SYN) 263
- McLean, John D. and Tobias, Leonard** An interactive real time simulation for scheduling and monitoring of STOL aircraft in the terminal area. (JA) 372
- McLellan, Alden** Remote sensing of atmospheric turbidity variation by satellite. (JSR, EN) 743
- McMahon, H.** (JA; see Mikolowsky, W.)
- McRuer, Duane** Development of pilot-in-the-loop analysis. (JA, SA) 515
- Medgyesi-Mitschang, L. N.** (AIAA J, TN; see Mullen, J. H.)
- Meeks, D.** (JH; see Edgerton, A. T.)

- Mei, Chuh** Finite element analysis of nonlinear vibration of beam columns. (AIAA J, TN) 115
- Meier, Robert R.** Looking at the solar system in the far-ultraviolet. (A/A, October) 18
- Meier, Thomas C.** Performance potential of the colloid core reactor concept in near-Earth applications. (JST) 571
- Meirovitch, Leonard and Calico, Robert A.** A comparative study of stability methods for flexible satellites. (AIAA J) 91
- Melliore, Ronald A.** (JSR; see Laurensen, Robert M.)
- Mellor, George L. and Herring, H. James** A survey of the mean turbulent field closure models. (AIAA J, SA) 590
- Mente, Lawrence J.** Dynamic nonlinear response of cylindrical shells to asymmetric pressure loading. (AIAA J) 793
- Mercanti, Enrico P.** ERTS-1: Teaching us a new way to see. (A/A, September) 36
- Mermagen, William H.** (JSR; see Whyte, Robert H.)
- Merritt, D. C.** (JSR; see Gray, C. R.)
- Merritt, Gordon and Rudinger, George** Thermal and momentum diffusivity measurements in a turbulent stratified flow. (AIAA J) 1465
- Merz, Richard A., Page, Robert H., and Przirembel, Christian E. G.** Effect of base mounted cylinders on a supersonic near wake. (JSR, EN) 470
- Meyer, F.** Locus of a one-dimensional shock front caused by a disturbance moving on a circle. (AIAA J, TN) 408
- Meyer, George E. and Boulter, Michael J.** Bird control at the airport. (A/A, December) 55
- Micale, Edward C. and Poli, Corrado** Dynamics of slung bodies utilizing a rotating wheel for stability. (JA, EN) 760
- Michels, Charles J. and York, Thomas M.** Exhaust flow and propulsion characteristics of a pulsed MPD-arc thruster. (AIAA J, SYN) 579
- Mikolowsky, W. and McMahon, H.** An experimental investigation of a jet issuing from a wing in cross flow. (JA) 546
- Milder, Nelson L. and Sovey, James S.** Star tracking through the exhaust beam of mercury bombardment thrusters. (JSR) 47
- Miller, Boyce E. and Hack, Harvey P.** Impressed-current cathodic protection of aluminum-hulled craft. (JH) 108
- Miller, B. P., Beck, George A., and Barletta, Joseph M.** High resolution multispectral camera system for ERTS A & B. (JSR) 638
- Miller, Gabriel** Mathematical formulation of viscous-inviscid interaction problems in supersonic flow. (AIAA J) 938
- Mills, George and Dauksys, Richard J.** Effects of prestressing boron/epoxy prepreg on composite strength properties. (AIAA J, SYN) 1459
- Minkowycz, W. J.** (AIAA J; see Bishop, William M.)
- Mirels, H., Hofland, R., and King, W. S.** Simplified model of CW diffusion-type chemical laser. (AIAA J) 156
- Mirly, Kenneth A. and Selberg, B. P.** Support wire disturbances in near viscous wakes of slender supersonic bodies. (JSR, EN) 474
- Mitchell, R. T. and O'Neil, W. J.** Maneuver design and implementation for the Mariner 9 mission. (JSR) 723
- Mitra, Reba** (AIAA J, TN; see Niyogi, Pradip)
- Miura, H.** (JA, SYN; see Fox, R. L.)
- Modi, V. J. and Pande, K. C.** Solar pressure control of a dual-spin satellite. (JSR) 355
- and **Shrivastava, S. K.** Optimized performance of a semipassive aerodynamic controller. (AIAA J) 1080
- and **Pande, K. C.** Solar pressure induced librations of spinning axisymmetric satellites. (JSR, EN) 615
- Moe, Mildred M. and Tsang, Louis C.** Drag coefficients for cones and cylinders according to Schamberg's model. (AIAA J, TN) 396
- Moghe, S. R.** Analysis of centrifugal stresses in anisotropic viscoelastic cylinder. (AIAA J) 723
- Molder, Sannu** (AIAA J, ERR; see D'Souza, Norbert)
- Montegani, F.** (JA; see Benzakein, M. J.)
- Mook, Dean T.** (JH; see Nayfeh, Ali H.)
- Moore, Jimmie A.** (AIAA J; see Jones, W. P.)
- Morduchow, Morris and Volpe, Giuseppe** Exact analytical solutions for orbits of bodies with atmospheric drag. (AIAA J, TN) 381
- Moretti, Gino** (AIAA J, ERR; see D'Souza, Norbert)
- Morgenthaler, J. H.** (AIAA J; see Zelazny, S. W.)
- Morino, Luigi** (AIAA J, SYN; see Kuo, Ching-chiang)
- (AIAA J, TN; see Leech, John W.)
- Morris, W. Douglas** (JSR, EN; see Talay, Theodore A.)
- Morse, Francis** (A/A, October; see Hung, Jack R.)
- Morton, J. B.** (AIAA J, SYN; see Jacobson, Ira D.)
- Morton, Leo C.** (AIAA J, SYN; see Kaufman, Louis G., II)
- Moser, Alfred and Shollenberger, Carl A.** Inviscid wake-airfoil interaction on multielement high lift systems. (JA, EN) 765
- Motyka, Paul R. and Hall, G. Warren** Comparison of geometric and response-feedback approaches to aircraft lateral-directional decoupling. (JA, TC) 698
- Moyer, H. Gardner** Integrals for optimal flight over a spherical Earth. (AIAA J, TN) 1441
- Mudford, N. R.** (AIAA J, SYN; see Stalker, R. J.)
- Mueller, Thomas J.** (JSR; see Sule, Wayne P.)
- (AIAA J; see Fanning, A. E.)
- Muggeridge, D. B.** (JSR; see Tennyson, R. C.)
- Mulholland, Donald R. and Neel, Carr B.** Airborne-science techniques aid shuttle planning. (A/A, May) 24
- Mullen, J. H., Madson, J. M., Medgyesi-Mitschang, L. N.** Ion intensity measurement in a plasma reaction channel. (AIAA J, EN) 1031
- Munch, C. Lee** (JA; see Paterson, Robert W.)
- Munson, Bruce R.** (AIAA J, TN; see Grittner, Steven F.)
- Murphy, Charles H.** Subharmonic behavior of a slightly asymmetric missile. (AIAA J, TN) 884
- Murphy, David G.** (JA; see Black, Richard E.)
- Murphy, James T. and Darwin, Charles R.** Lower payload costs through refurbishment and module replacement. (A/A, May) 40
- Murphy, John D.** (AIAA J, SYN; see Reda, Daniel C.)
- Murthy, Kalayya Narayana and Christiano, Paul** Design of least weight structures for prescribed buckling load. (AIAA J, TN) 1773
- Murty, A. V. Krishna** (AIAA J, TN; see Prasad, K. S. R. K.)
- Na, T. Y.** (AIAA J, TN; see Habib, I. S.)
- Comment on "Compressible boundary-layer equations solved by the method of parameter differentiation." (AIAA J, TC) 1790
- Naber, Michael E.** (AIAA J, TN; see Smithey, William J. H.)
- Nachtsheim, Philip R.** (AIAA J, TN; see Liu, Tsong-Mou)
- Nagaoka, T.** (JSR, EN; see Toda, Y.)
- Nagendra, H. R.** Laminar film boiling on inclined isothermal flat plates. (AIAA J) 72
- Transient forced convection heat transfer from an isothermal flat plate. (AIAA J, TN) 876
- Nakanishi, Shigeo** Durability tests of a 5-cm-diam ion thruster system. (JSR, EN) 608
- Narasimhan, S.** (AIAA J, TN; see Ningappa, H. S.)
- Narayana, C. L. and Ramamoorthy, P.** Reply by authors to Tsung Y. Na. (AIAA J, TC) 1791
- Narendra, Kumpati S. and Tripathi, Shiva S.** Identification and optimization of aircraft dynamics. (JA) 193
- Nash, William A.** Comment on "Analysis of a clamped skew plate under uniform loading." (AIAA J, TC) 255
- Nath, G.** Solution of nonlinear problems in magnetofluidynamics and non-Newtonian fluid mechanics through parametric differentiation. (AIAA J, TN) 1429
- Naugle, John E. and Johnson, Rodney, W.** Space science plans for the shuttle era. (A/A, May) 34
- (A/A, October; see Rasool, S. I.)
- Nayfeh, Ali H., Mook, Dean T., and Marshall, Larry R.** Nonlinear coupling of pitch and roll modes in ship motions. (JH) 145
- Nebbeling, C.** (AIAA J; see Bannink, W. J.)
- Neel, Carr B.** (A/A, May; see Mulholland, Donald R.)
- Nelson, R. B.** (AIAA J; see Pickett, R. M., Jr.)
- (AIAA J, TN; see Felton, L. P.)
- and **Felton, Lewis P.** Thin-walled beams in frame synthesis. (AIAA J, ERR) 896
- Nestler, D. E.** (JSR; see Brewer, R. A.)
- Engineering analysis of reattaching shear layer heat transfer. (AIAA J, TN) 390
- Newman, R. L. and Spicer, W. C.** Thermal conductivity of mixed-composition plasma-sprayed coatings. (AIAA J, TN) 401
- (JA, EN; see Cross, K. R.)
- (JA, ERR; see Cavanagh, J. R.)
- **Cross, K. R., Spicer, W. C., Sheets, H. D., and Driskell, T. D.** Application of thermal barriers to high-temperature engine components. (JA, ERR) 256
- Nicolai, Leland M. and Sanchez, Felix** Correlation of wing-body combination lift data. (JA, EN) 126
- Ningappa, H. S. and Narasimhan, S.** Base pressures in flow expansions by hydraulic analogy. (AIAA J, TN) 727
- Nissim, E.** (AIAA J; see Shalev, A.)
- Niyogi, Pradip and Mitra, Reba** Approximate shock-free transonic solution for a symmetric profile at zero incidence. (AIAA J, TN) 751
- Noor, Ahmed K.** Free vibrations of multilayered composite plates. (AIAA J, TN) 1038
- Northam, G. B.** Effects of composition on acceleration induced burning-rate augmentation. (AIAA J) 848
- Norton, David J., Macha, John M., and Young, James C.** Surface temperature effect on subsonic stall. (JSR) 581
- and **White, R. E.** Striated nozzle flow with small radius of curvature ratio throats. (JSR, EN) 747
- Nørstrud, Helge** Transonic flow past lifting wings. (AIAA J, TN) 754
- Nowak, Robert J. and Yuen, M. C.** Heat transfer to a hemispherical body in a supersonic argon plasma. (AIAA J, SYN) 1463
- Nunn, Robert H. and Frick, Kenneth E.** Jet penetration at a sonic throat. (JSR, EN) 819
- Obremski, Henry J.** (AIAA J, SYN; see Goldman, Robert L.)
- O'Connor, James S.** (AIAA J; see Dailey, George)
- O'Dell, C. R.** Optical space astronomy and goals of the large space telescope. (A/A, April) 22
- Oden, J. T., Akay, H. U., and Johnson, C. P.** Effect of higher order terms in certain nonlinear finite element models. (AIAA J, TN) 1589
- Oh, Y. H.** (JH, TC; see Chang, P. K.)
- Okada, Y.** (JSR, EN; see Toda, Y.)
- Olcott, John W.** (JA; see Seckel, Edward)
- O'Neil, W. J.** (JSR; see Mitchell, R. T.)
- Orlik-Rückemann, K. J., LaBerge, J. G., and Iyengar, S.** Half- and full-model experiments on slender cones at angle of attack. (JSR) 575
- and **Iyengar, S.** Example of dynamic interference effects between two oscillating vehicles. (JSR, EN) 617
- Ormiston, R. A.** (JA, EN; see Crews, S. T.)

- Osborne, Colin Unsteady thin-airfoil theory for subsonic flow. (AIAA J) 205
 —Compressible unsteady interactions between blade rows. (AIAA J) 340
 —Compressible unsteady interactions between blade rows. (AIAA J, ERR) 1360
- Oskay, Vural (JA; see Kahn, Stanley D.)
- Ostrowski, Peter P. (JH, EN; see Stoy, Robert L.)
- Overcamp, Thomas J. and Fay, James A. Dispersion and subsidence of the exhaust of a supersonic transport in the stratosphere. (JA) 720
- Ozaltin, O. (AIAA J; see Gulati, S. T.)
- Padawer, G. E. Film reinforced multifastened mechanical joints in fibrous composites. (JA) 561
- Padovan, Joseph Transient temperature distribution of an anisotropic half space. (AIAA J, TN) 565
 —Bending stresses and strains in anisotropic semi-infinite plates with arbitrary edge and surface loadings. (AIAA J, TN) 570
 —Stresses in an anisotropic half-space. (AIAA J, TN) 1194
- Page, Richard J. (AIAA J, TN; see Rose, William C.)
- Page, Robert H. (JSR, EN; see Merz, Richard A.)
- Page, Russell J. (JSR, EN; see Halbach, Carl R.)
- Palaninathan, R. and Kunukkasseril, V. X. Axisymmetric impulsive loading of shallow spherical shells. (AIAA J) 1645
- Pandalai, K. A. V. (AIAA J; see Sathyamoorthy, M.)
 —and Sathyamoorthy, M. Postbuckling behavior of orthotropic skew plates. (AIAA J, TN) 731
- Pande, K. C. (JSR; see Modi, V. J.)
 —(JSR, EN; see Modi, V. J.)
- Panton, R. L. Analytical method for combining the interaction of inlet distortion and turbulence. (JA, ERR) 192
- Pardoen, Gerard C. Deflection function for the asymmetrical bending of circular plates. (AIAA J, TN) 1341
- Park, Chul, Anderson, Lewis A., and Sheldahl, Robert E. Atomic recombination rate determination through heat-transfer measurement. (AIAA J, TN) 372
- Parker, Hermon M. (AIAA J, SYN; see Raghunath, Boray S.)
- Parmentier, E. M. and Greenberg, R. A. Supersonic flow aerodynamic windows for high-power lasers. (AIAA J) 943
- Pate, S. R. and Eaves, R. H., Jr. Sensitivity of boundary-layer transition to surface irregularities for space shuttle applications. (JSR, EN) 813
- Patel, Rajni P. An experimental study of a plane mixing layer. (AIAA J) 67
- Patel, V. C. (AIAA J, TC; see Bradshaw, Peter)
- Paterson, Robert W., Vogt, Paul G., Fink, Martin R., and Munch, C. Lee Vortex noise of isolated airfoils. (JA) 296
 —Vogt, Paul G., and Foley, William M. Design and development of the United Aircraft Research Laboratories Acoustic Research Tunnel. (JA) 427
- Patten, T. C. (JSR; see Kelly, P. J.)
- Pawlik, E. V. (JSR; see Wen, L.)
 —Goldstein, Raymond, Fitzgerald, Dennis J., and Adams, Roy W. Ion thruster performance calibration. (JSR) 327
- Pearson, W. E. and Davy, W. C. New thermodynamic functions for the C₃ molecule. (AIAA J, TN) 1207
- Peddieson, John, Jr. and Lyu, Chung-Hsein Dusty hypersonic wedge flow. (AIAA J, TN) 110
 —(AIAA J, TN; see Smith, Dallas G.)
- Peoples, J. R. (JSR; see Clark, W. H.)
- Pepper, William B. and Biesterveld, John R. An omnidirectional gliding ribbon parachute and control system. (JA) 678
- Peretz, A., Kuo, K. K., Caveny, L. H., and Summerfield, M. Starting transient of solid-propellant rocket motors with high internal gas velocities. (AIAA J) 1719
- Perkins, Richard W., Jr. and Thompson, David Experimental evidence of a couple-stress effect. (AIAA J, TN) 1053
- Petersen, Richard H. and Waters, Mark H. Hypersonic transports—Economics and environmental effects. (JA) 334
- Peterson, David L. (JSR; see Wakefield, Roy M.)
- Peterson, R. C. (AIAA J, TN; see Lee, J. B.)
- Peterson, R. L. (AIAA J, TN; see Isaacson, L. K.)
- Petrie, S. L. (JA; see Lee, H. F.)
- Pfenninger, W. (JA; see Hahn, Mansop)
- Phadke, M. S. (JSR; see Joglekar, A. M.)
- Philip, C. M. (AIAA J, SYN; see Fearn, D. G.)
- Pian, Theodore H. H. (AIAA J, TN; see Mau, Sheng-Taur)
- Pickett, R. M., Jr., Rubinstein, M. F., and Nelson, R. B. Automated structural synthesis using a reduced number of design coordinates. (AIAA J) 489
- Pierson, John D. Design loadings and structural considerations for tracked air cushion research vehicle. (JA) 503
- Pigache, Daniel R. A laboratory simulation of the ionospheric plasma. (AIAA J, SYN) 129
- Pike, Jack Newtonian aerodynamic forces from Poisson's equation. (AIAA J) 499
- Pike, Ralph W. (AIAA J; see Engel, Carl D.)
 —(JSR, EN; see Balhoff, John F.)
- Pikus, I. M., Goldstein, H. W., and Riethof, T. R. The remote measurement of nitric oxide from an airplane or space platform. (JSR) 190
- Pilkey, Walter D. (JH; see Chang, Pin Yu)
- Pinegre, M. (AIAA J; see Valentin, P.)
- Pines, Samuel Uniform representation of the gravitational potential and its derivatives. (AIAA J) 1508
- Pio, Richard L. Error analysis of Euler angle transformations. (AIAA J) 871
- Piva, Renzo Interaction between an upstream facing wall jet and a supersonic stream. (AIAA J, SYN) 6
- Pivrotto, Thomas J. Pressure and current effects on the thermal efficiency of an MPD arc used as a plasma source. (AIAA J, SYN) 12
- Planchon, H. P. (AIAA J; see Jones, B. G.)
- Platou, Anders S. Reply by author to F. J. Regan. (AIAA J, TC) 415
- Platzter, M. F., Brix, C. W., Jr., and Webster, K. A. Linearized characteristics method for supersonic flow past vibrating shells. (AIAA J) 1302
- Plaut, R. H. and Huseyin, K. Derivatives of eigenvalues and eigenvectors in non-self-adjoint systems. (AIAA J, TN) 250
- Poli, Corrado and Cromack, Duane Dynamics of slung bodies using a single-point suspension system. (JA) 80
 —(JA, EN; see Micale, Edward C.)
- Poole, Lamont R. Effect of suspension-line viscous damping on parachute opening load amplification. (JSR, EN) 92
 —Viscous damping characteristics of dacron parachute suspension-line cord. (JSR, EN) 751
- Pope, Geoffrey G. Optimum design of stressed skin structures. (AIAA J) 1545
- Popov, E. P. (AIAA J; see Sharifi, Parviz)
- Poritzky, Siegbert B. A look at Soviet ATC and Nav facilities and avionics. (A/A, September) 69
- Porter, Robert W. (AIAA J, TN; see Yoo, Chong-Yul)
- Post, R. F. Nuclear fusion by magnetic confinement. (A/A, August) 50
- Potter, James E. and Deckert, James C. Minimax failure detection and identification in redundant gyro and accelerometer systems. (JSR) 236
- Poupard, R. E., Lee, W. H., Steele, T. D., and Hudson, F. J. Design considerations for shuttle information management. (A/A, May) 48
- Power, H. L. and Iversen, J. D. Magnus effect on spinning bodies of revolution. (AIAA J, SYN) 417
 —(JA, EN; see Ball, R. E.)
- Powers, William F. A crude-search Davidson-type technique with application to shuttle optimization. (JSR) 710
- Prabhakaran, R. Photoelastic analysis of an orthotropic ring under diametral compression. (AIAA J, SYN) 777
- Prahlad, T. S. Mean velocity profiles in three-dimensional incompressible turbulent boundary layers. (AIAA J) 359
- Prasad, K. S. R. K. and Murty, A. V. Krishna Galerkin finite element method for vibration problems. (AIAA J, TN) 544
- Price, Charles F. (JSR; see Deyst, John J., Jr.)
- Price, Donald A., Jr. (AIAA J, TN; see Ericsson, Lars E.)
- Price, L. L. (AIAA J, TN; see Whitfield, D. L.)
- Pritz, W. L. and Schoner, R. J. Verification of a comprehensive thrust chamber compatibility model for liquid rocket engines. (JSR) 558
- Przemieniecki, J. S. Finite element structural analysis of local instability. (AIAA J) 33
- Przirembel, Christian E. G. (JSR, EN; see Merz, Richard A.)
- Putz, Kurt E. and Barlett, Eugene P. Heat-transfer and ablation-rate correlations for re-entry heat-shield and nosetip applications. (JSR) 15
- Pyare, R. and Abu-Romia, M. M. Coupled radiation with turbulent convection in electric arcs. (AIAA J, TN) 1188
- Pye, J. W. Component development for a 10-cm mercury ion thruster. (JSR) 106
- Quinn, Brian Compact ejector thruster augmentation. (JA) 481
 —A simple estimate of the effect of ejector length on thrust augmentation. (JA, EN) 313
- Radley, Roger J., Jr., and Havener, Albert G. Application of dual hologram interferometry to wind-tunnel testing. (AIAA J, TN) 1332
- Ragan, Ralph R. Stabilized. (JSR, E) 1
- Raggett, Jon D. Linear theory of stall flutter. (AIAA J, TN) 733
- Raghavan, K. S. and Sundararajan, V. Vibrations of an Euler beam with a system of discrete masses, springs, and dashpots. (JA, EN) 190
- Raghunath, Boray S. and Parker, Hermon M. Evaluation of aerodynamic derivatives from a magnetic balance system. (AIAA J, SYN) 897
- Rakowsky, E. L. (JSR; see Marchese, V. P.)
- Ramamoorthy, P. (AIAA J, TC; see Narayana, C. L.)
- Ramaprian, B. R. Turbulent wall-jets in conical diffusers. (AIAA J) 1684
- Ramirez, A., Jr., Rao, B. M., and Cronk, A. E. Longitudinal response of an aircraft due to a trailing vortex pair. (JA, EN) 638
- Rao, B. M. (JA, EN; see Ramirez, A., Jr.)
- Rao, B. S., Karnik, K. S., and Gupta, V. D. A study of satellite television broadcasting systems for India. (JSR, EN) 537
- Rao, G. N. V. (JA, EN; see Krishnaswamy, T. N.)
- Rao, K. Singa and Amba-Rao, C. L. Comment on "Lateral vibration and stability relationship of elastically restrained circular plates." (AIAA J, TC) 1056
 —and Amba-Rao, C. L. Reply by authors to A. H. Flax. (AIAA J, TC) 1599

- Rao, N. Ramachandra (AIAA J; see Alwar, R. S.)
- Rao, Prabhada P. Streamline curvature and velocity gradient behind curved shocks. (AIAA J, TN) 1352
- Rao, S. S. (JA, SYN; see Fox, R. L.)
- Reply by author to K. G. Bhatia and C. S. Rudisill. (AIAA J, TC) 1791
- Rasmussen, Maurice L. (AIAA J; see Doty, Robert T.)
- Rasool, S. I., Long, J. E., and Naugle, J. E. Exploring Jupiter, Saturn and their satellites. (A/A, October) 26
- Rathi, Jaipal S. (AIAA J, TN; see Hall, J. Gordon)
- Rathy, R. K. and Chandra, Kailash Hydrodynamic stability of density-stratified spiral flows. (AIAA J, TN) 544
- Rauch, Frank J. (JA; see Chipman, Richard R.)
- Rawlin, V. K., Banks, B. A., and Byers, D. C. Dished accelerator grids on a 30-cm ion thruster. (JSR) 29
- Rayhawk, Stephen M. (JA; see Rolston, David R.)
- Razzaque, Abdur (AIAA J, TN; see Irons, Bruce M.)
- Reda, Daniel C. and Murphy, John D. Shock wave/turbulent boundary-layer interactions in rectangular channels. (AIAA J, SYN) 139
- and Murphy, John D. Sidewall boundary-layer influence on shock/wave/turbulent boundary-layer interactions. (AIAA J, SYN) 1367
- Reddall, Walter F., III Spherically-symmetric supersonic source flow: A new use for the Prandtl-Meyer function. (AIAA J, TN) 1787
- Reddy, K. R. (JA, EN; see Krishnaswamy, T. N.)
- Reddy, R. S. (AIAA J, TN; see Weston, Kenneth C.)
- Reding, J. Peter (JA; see Ericsson, Lars E.)
- (JSR; see Ericsson, Lars E.)
- and Ericsson, Lars E. Effects of delta wing separation on shuttle dynamics. (JSR) 421
- and Guenther, Rolf A. Analysis of normal shock noise measurements on nose-cylinder bodies. (JSR) 429
- (JSR, EN; see Ericsson, Lars E.)
- Regan, F. J. Comment on "Wind-tunnel Magnus testing of a canted fin or self-rotating configuration." (AIAA J, TC) 413
- Rehder, John J. Correlation of hypersonic zero-lift drag data. (JSR, EN) 622
- Rehfield, L. W. Design of stiffened cylinders to resist axial compression. (JSR) 346
- Advanced elastic postbuckling analysis by a perturbation procedure. (AIAA J, TN) 759
- Reichle, H. (AIAA J, SYN; see Acton, L. L.)
- Reichle, Michael and Bradner, Hugh Use of accelerometers to determine tilts and displacements. (AIAA J, TN) 735
- Reid, R. L. and Tennant, J. S. Annular ring view factors. (AIAA J, TN) 1446
- Reinecke, W. G. (JSR, EN; see Zappa, O. L.)
- Reinhardt, W. A. (AIAA J; see Kutler, P.)
- Reis, G. E. (AIAA J; see Vaughn, H. R.)
- Reismann, H. (AIAA J, SYN; see Weingarten, L. I.)
- Reiter, Elmar R. Ozone, aerosols, and solar radiation in the stratosphere. (JA) 710
- Reshotko, Eli (AIAA J, TN; see Sherman, Arthur)
- Reynolds, Thaine W. Effective specific impulse of external nuclear pulse propulsion systems. (JSR, SYN) 629
- Rhodes, C. A. and Kaminer, H., Jr. Reply by authors to H. E. Eickhoff (AIAA J, TC) 895
- Rhudy, R. W. (AIAA J; see Gray, J. Don)
- Rice, J. S. (AIAA J, TN; see Seibert, A. G.)
- Richards, Bryan E. (AIAA J, TN; see Houwink, Roel)
- Richardson, Robert J. Abundance of NH_3 on Jupiter inferred from microwave radiometry data. (JSR) 647
- Riethof, T. R. (JSR; see Pikus, I. M.)
- Rinehart, W. A. (JSR, EN; see Williamson, Ronald A.)
- Ringo, Ronald L. Cost-of-ownership design philosophy for inertial navigators. (A/A, June) 59
- Rizzi, Arthur W. and Inouye, Mamoru Time-split finite-volume method for three-dimensional blunt-body flow. (AIAA J) 1478
- Roache, Patrick J. Base drag calculations in supersonic turbulent axisymmetric flows. (JSR, EN) 285
- Robb, Barrett S. and Turcotte, Donald L. Laser produced hemispherical shock waves. (AIAA J) 836
- Roberts, Barney B. (JSR; see Rochelle, William C.)
- Roberts, J. B. Coherence measurements in an axisymmetric wake. (AIAA J, TN) 1569
- Robinson, James C. (AIAA J, TN; see Haftka, Raphael T.)
- (AIAA J, ERR; see Haftka, Raphael T.)
- Rochelle, William C., Roberts, Barney B., d'Attorre, Leo, and Bilyk, M. A. Shuttle orbiter re-entry flowfields at high angle of attack. (JSR) 783
- Rogers, D. (AIAA J; see Martellucci, A.)
- Rogers, David F. Transformation of the hypersonic compressible Navier-Stokes equations. (AIAA J, TN) 119
- Roland, V. R. (AIAA J, TN; see Schiess, J. R.)
- Rolston, David R., Rayhawk, Stephen M., and Barnes, Benny B. Advanced fighter controls flight simulator for all-systems compatibility testing. (JA) 602
- Rom, J. (AIAA J; see Small, R. D.)
- Romero, Jacob B. and Gruneich, Frederic A. Unsteady flow processes in a rapidly filling plenum. (AIAA J, TN) 368
- Roos, Darrell G. (JSR; see Asnin, Scott K.)
- Rosciszewski, J. J. and Yeh, T. T. Shock tube flow passing through a section of a linear MHD generator. (AIAA J, TN) 1756
- Rose, William C., Page, Richard J., and Childs, Morris E. Incipient separation pressure rise for a Mach 3.8 turbulent boundary layer. (AIAA J, TN) 761
- Ross, R. Influence of total temperature on transition in supersonic flow. (AIAA J, TN) 563
- Ross, Ronald G., Jr. (AIAA J, TN; see Salama, A. Mokhtar)
- Rossow, M. P. and Taylor, J. E. A finite element method for the optimal design of variable thickness sheets. (AIAA J, TN) 1566
- Rossow, Vernon J. On the inviscid rolled-up structure of lift-generated vortices. (JA) 647
- Conformal mapping for potential flow about airfoils with attached flap. (JA, EN) 60
- Roth, N. (JSR; see Berman, K.)
- (JSR, EN; see Berman, K.)
- Rotman, Walter (AIAA J; see Hayes, Dallas T.)
- Rourke, Kenneth H. and Jordan, James F. Application of sequential filtering to estimation of the interplanetary orbit of Mariner 9. (JSR) 773
- Roux, J. A., Todd, D. C., and Smith, A. M. Eigenvalues and eigenvectors for solutions to the radiative transport equation. (AIAA J, ERR) 767
- Rowe, William S. (JA; see Ii, Jack Morito)
- Roy, Sreedhan Contribution in unsteady flow of power-law fluids. (AIAA J, TN) 238
- Unsteady boundary-layer flow of power law fluids. (AIAA J, TN) 1581
- Rudinger, George (AIAA J; see Merritt, Gordon)
- Rubinstein, M. F. (AIAA J; see Pickett, R. M., Jr.)
- Rudisill, C. S. and Cooper, J. L. An automated procedure for determining the flutter velocity. (JA, EN) 442
- (AIAA J, TC; see Bhatia, Kumar G.)
- Rudman, Richard (A/A, June; see Starr, Chauncey)
- Rungaldier, Harald (AIAA J; see Fox, Jay)
- Russell, David A. and Tong, Kwok-On Aerodynamics of high-performance Ludwig tubes. (AIAA J) 642
- Sagartz, Mathias J. Use of modal solutions in elastic wave propagation problems. (AIAA J, TN) 384
- (AIAA J, TC; see Forrestal, M. J.)
- Saghera, S. S. (AIAA J, TN; see Weingarten, V. I.)
- Salama, A. Mokhtar and Ross, Ronald G., Jr. Optimum shell design. (AIAA J, TN) 366
- Salkeld, Robert and Beichel, Rudi Reusable one-stage-to-orbit shuttles: Brightening prospects. (A/A, June) 48
- Sallett, D. W. The lift force due to von Karman's vortex wake. (JH) 161
- Salmon, David M. and Heine, Walter Reachable sets analysis—An efficient technique for performing missile/sensor tradeoff studies. (AIAA J) 927
- Multipoint guidance—An efficient implementation of predictive guidance. (AIAA J) 1749
- Salser, G. E. (AIAA J, TN; see Dauerman, Leonard)
- Salvesen, Nils Seakeeping characteristics of small-waterplane-area-twin-hull ships. (JH) 3
- Sanchez, Felix (JA, EN; see Nicolai, Leland M.)
- Sandborn, Virgil A. (AIAA J, TN; see Cliff, William C.)
- Sanders, James V., Henderson, Lee H., and White, Robin J. Effects of polyethylene-oxide solutions on the performance of a small propeller. (JH) 124
- Sanders, Newell D. A quiet engine for stilling complaints. (A/A, January) 40
- Sandoz, Paul L. The next careful steps in commercial aircraft structures. (A/A, July) 38
- San Miguel, Anthony Design criteria for inert or consumable polymer cartridge materials. (JSR) 333
- Saraniero, M. A., Caveny, L. H., and Summerfield, M. Restart transients of hybrid rocket engines. (JSR, EN) 215
- Sargent, Francis W. Centralized data banks—Where public technology can go wrong. (A/A, November) 18
- Sathyamoorthy, M. and Pandalai, K. A. V. Large amplitude flexural vibration of simply supported skew plates. (AIAA J) 1279
- (AIAA J, TN; see Pandalai, K. A. V.)
- Satija, K. S. Potential flow about body in finite stream. (JH) 17
- Sato, Junzo Inverse method of designing two-dimensional transonic airfoil sections. (AIAA J) 58
- Discrete vortex method of two-dimensional jet flaps. (AIAA J) 968
- Sayano, Shoichi and Greenwald, George F. Approximate method for calculating heat transfer to yawed cylinders in laminar flow. (JSR, EN) 157
- Saydah, A. R. (JSR; see Brewer, R. A.)
- Saylak, Donald Induced plasticization—An inner bore surface treatment technique for solid-propellant rocket motors. (JSR) 564
- Schadow, Klaus Study of gas-phase reactions in particle-laden, ducted flows. (AIAA J, TN) 1042
- Schall, Wolfgang Influence of magnetic fields on anode losses in MPD-arcs. (AIAA J, SYN) 10
- Schappell, Roger T. and Johnson, Gail R. Experimental and simulation study results of a planetary landing site selection system. (JSR, EN) 277
- Schappelle, Robert H. (AIAA J, SYN; see Brusch, Richard G.)

- Schelden, B. G. and Golden, J. O. Development of a phase change thermal control device. (JSR, SYN) 99
- Schetz, Joseph A. (AIAA J, SYN; see Kenworthy, Michael)
- (AIAA J, SYN; see Kush, Edward A., Jr.)
- Favin, Stanley, and Ehrlich, Louis W. Density stratified, viscous flow past a flat plate. (JH) 22
- (AIAA J; see Campbell, James F.)
- (AIAA J; see Waltrup, P. J.)
- and Favin, Stanley Analysis of the effects of a probe in the transonic region of a nozzle. (AIAA J, TN) 1453
- Schexnayder, C. J., Jr. (AIAA J, SYN; see Evans, J. S.)
- Schiehlen, Werner O. Comment on "A method of earth-pointing attitude control for elliptic orbits." (AIAA J, TC) 127
- Comment on "A method of earth-pointing attitude control for elliptic orbits." (AIAA J, ERR) 1056
- Schiess, James R. (AIAA J; see Compton, Harold R.)
- Roland, V. R., and Wells, W. R. Application of nonlinear estimators to hereditary systems. (AIAA J, TN) 1414
- Schmidt, Carl F. Technology—Liberator or destroyer? (JA, E) 1
- Schmidt, David K. and Swaim, Robert L. An optimal control approach to terminal area air traffic control. (JA) 181
- Schmidt, J. W. (JA; see Wilhelm, W. E.)
- Schmitt, George F., Jr. On the dependence of materials erosion on environmental parameters at supersonic velocities. (JA) 705
- Schmitz, Fredric H. and Stepniowski, W. Z. Reduction of VTOL operational noise through flight trajectory management. (JA) 385
- Schmitz, Peter D. Normal mode solution to the equations of motion of a flexible airplane. (JA, EN) 318
- Schneider, C. C., Jr. and Likins, P. W. Nutation dampers vs precession dampers for asymmetric spinning spacecraft. (JSR, EN) 218
- Schneider, P. J., Teter, R. D., Coleman, W. D., and Heath, R. M. Design of graphite nosetips for ballistics re-entry. (JSR) 592
- Schoner, R. J. (JSR; see Pritz, W. L.)
- Schreiber, P. W., Hunter, A. M., II, and Benedetto, K. R. Electrical conductivity and total emission coefficient of air plasma. (AIAA J) 815
- Schroeder, Lyle C. and Akey, Norman D. Material injection alleviation during the RAM C-III flight. (JSR) 170
- Schweitzer, Gerhard (JSR; see Seltzer, S. M.)
- Schwiesow, Ronald L. Ramon scattering from pollutant gases and air-water interfaces. (AIAA J) 87
- Schwind, R. G. (JA; see Corsiglia, V. R.)
- Scoggins, James R. (JA; see Cass, Stanley D.)
- and Incrocci, Thomas P. Mountain waves and CAT encountered by the XB-70 in the stratosphere. (JA) 172
- Scott, Robert K. and Incropera, Frank P. Nonequilibrium flow calculations for the hydrogen constricted arc. (AIAA J) 1714
- Scragg, Carl A. (AIAA J, TN; see Libby, Paul A.)
- Seader, J. D. (JSR; see Chidley, John D.)
- (AIAA J; see Hsieh, Chia-Lung)
- (JSR; see Hsieh, Chia-Lung)
- Seckel, Edward, Ellis, David R., and Olcott, John W. Experimental landings in a spoiler-equipped light aircraft. (JA) 220
- Sedney, Raymond A survey of the effects of small protuberances on boundary-layer flows. (AIAA J, SA) 782
- Seebaugh, William R. Hypersonic flows in large-scale inlet models. (JA) 38
- Segletes, John A. Oxidation of Poco AXF-Q1 graphite in air. (JSR) 803
- Seibert, A. G. and Rice, J. S. Coupled thermally induced vibrations of beams. (AIAA J, TN) 1033
- Seitz, W. R. and Goodson, R. E. Flight director design for a STOL aircraft. (JA) 491
- Selberg, B. P. (JSR, EN; see Mirly, Kenneth A.)
- Seltzer, S. M., Schweitzer, Gerhard, and Asner, Bernard, Jr. Attitude control of a spinning skyball. (JSR) 200
- Selzer, Horst Depressurization extinguishment of composite solid propellants: Influence of composition and catalysts. (AIAA J, SYN) 1221
- Sen, S. and Bainum, P. M. Motion of a dual-spin satellite during momentum wheel spin-up. (JSR) 760
- Serbin, Hyman Calculation of forces on stores in the vicinity of aircraft. (JA, EN) 123
- Sevik, Maurice (JH; see Tsushima, Hideya)
- Shalev, A., Baruch, M., and Nissim, E. Buckling analysis of hydrostatically loaded conical shells by the collocation method. (AIAA J) 1603
- Shanebrook, J. Richard and Sumner, William J. A small cross flow theory for three-dimensional, compressible, turbulent boundary layers on adiabatic walls. (AIAA J) 950
- Shang, J. S., Hankey, W. L., Jr., and Dwyer, D. L. Numerical analysis of eddy viscosity models in supersonic turbulent boundary layers. (AIAA J) 1677
- Shankar, Rama Geometry of relaxing gas flows. (AIAA J, TN) 1214
- Shannon, Roger L. Thermal scale modeling of radiation-conduction-convection systems. (JSR) 485
- Sharifi, Parviz and Popov, E. P. Nonlinear finite element analysis of sandwich shells of revolution. (AIAA J) 715
- Shavit, Gideon and Lavan, Zalman Analytical and experimental investigations of laminar mixing of confined heterogeneous jets. (AIAA J) 352
- Sheaffer, Y. S. (AIAA J, SYN; see Baldwin, B. S.)
- Sheets, H. D. (JA, ERR; see Newman, R. L.)
- Sheinman, Izhak and Tene, Yair Potential energy of a normal pressure field acting on an arbitrary shell. (AIAA J, TC) 1216
- Sheldahl, Robert E. (AIAA J, TN; see Park, Chul)
- Sheldon, John W. and Stone, Noble H. Multiring probe in a flowing ionospheric plasma. (AIAA J, TN) 1051
- Shelton, Haywood (JSR, EN; see Zafran, Sidney)
- Shen, S. F. and Chan, T. K. Variational approach to the lifting surface problem. (AIAA J) 1390
- Sherman, Arthur, Yeh, Hsuan, Reshotko, Eli, and McAssey, Edward, Jr. Multiple slot laminar film cooling. (AIAA J, TN) 1413
- Shiratori, Hirozo (AIAA J, TN; see Hirano, Toshisuke)
- Shitzer, Avraham and Chambers, Alan B. Comparative study of patches for liquid cooled garments. (JSR, EN) 541
- Sholar, M. S. (AIAA J; see Hall, B. M.)
- Shollenberger, C. A. Analysis of the interaction of jets and airfoils in two dimensions. (JA) 267
- (JA, EN; see Moser, Alfred)
- Shorr, M. (JSR, EN; see Fredericks, J. T.)
- Shoup, Terry E. (AIAA J, TN; see Dopkin, Joseph A.)
- Shrivastava, S. K. (AIAA J; see Modi, V. J.)
- Siemers, Paul M., III (JSR; see Steinberg, Sy)
- Simites, George J., Kamat, M. P., and Smith, C. V., Jr. Strongest column by the finite element displacement method. (AIAA J, SYN) 1231
- Optimal vs the stiffened circulate plate. (AIAA J) 1409
- Determination of stiffness and critical loads of a circular plate from a simple bending test. (AIAA J, TN) 1208
- Simpson, Roger L. A generalized correlation of roughness density effects on the turbulent boundary layer. (AIAA J, TN) 242
- Singa-Rao, K. and Amba-Rao, C. L. Vibration of beams with overhangs. (AIAA J, TN) 1445
- Sippel, David L. and Warner, William H. Minimum-mass design of multielement structures under a frequency constraint. (AIAA J) 483
- Slater, Gary L. and Wells, William R. Optimal evasive tactics against a proportional navigation missile with time delay. (JSR) 309
- Sliski, Neil J. (JSR; see Bramlette, T. Taz)
- Small, R. D. and Rom, J. Effect of disturbances on the heat transfer of a laminar axisymmetric boundary layer. (AIAA J) 1503
- Smeltzer, Donald B. (JA; see Sorensen, Norman E.)
- Smetana, Frederick O. and Knepper, Donald P. Toward simpler prediction of transonic airfoil lift, drag, and moment. (JA, EN) 124
- Smith, A. J., Jr. (AIAA J; see Zinn, B.)
- Smith, A. M. (AIAA J, ERR; see Roux, J. A.)
- Smith, Anthony M. and Matteson, Thomas D. Needed: Rational testing of aerospace vehicles. (A/A, August) 69
- Smith, C. Branson NSF's experimental R&D incentives program. (A/A, May) 54
- Smith, C. V., Jr. (AIAA J, SYN; see Simites, G. J.)
- Smith, C. W. (JA, EN; see Bradley, R. G.)
- Smith, D. (AIAA J; see Martellucci, A.)
- Smith, Dallas G., Peddieson, John, Jr., and Chung, Chin-Jer Finite deflection of a shallow spherical membrane. (AIAA J, TN) 736
- Smith, Richard R. (JSR; see Bramlette, T. Taz)
- Smith, Russell A. and Evbouma, S. Nosakhare Nose pressure distribution and separation on an inclined axisymmetric body. (AIAA J, TN) 125
- Smith, William Hayden and Barrett, J. J. Application of Fabry-Perot interferometry to detection of Ramon scattering from atmospheric pollutants. (AIAA J, SYN) 589
- Smithey, William J. H. and Naber, Michael E. Sonic line for a coaxial axisymmetric nozzle. (AIAA J, TN) 569
- Smithson, H. K. (AIAA J, TN; see Whitfield, D. L.)
- Smyth, D. N. (JA, EN; see Liebeck, R. H.)
- Snyder, Virgil (AIAA J, TN; see Hallquist, John)
- Solbes, Albert and Vondra, Robert J. Performance study of a solid fuel-pulsed electric microthruster. (JSR) 406
- Sorensen, Norman E. (JA, SYN; see Latham, Eldon A.)
- Smeltzer, Donald B., and Latham, Eldon A. Advanced supersonic inlet technology. (JA) 278
- Sovey, James S. (JSR; see Milder, Nelson L.)
- Spencer, D. J. and Varwig, R. L. Experimental CW chemical laser studies. (AIAA J) 1000
- Spencer, T. M. Attitude dynamics of a "nearly spherical" dual-spin satellite and orbital results for OSO-7. (JSR, SYN) 289
- Speyer, Jason L. On the fuel optimality of cruise. (JA, EN) 763
- Spicer, W. C. (AIAA J, TN; see Newman, R. L.)
- (JA, ERR; see Cavanagh, J. R.)
- (JA, ERR; see Newman, R. L.)
- Sprengel, Uwe W. (JSR; see Junge, Hinrich J.)
- Srinivasan, G. (AIAA J, TN; see Hall, J. Gordon)
- Stalker, R. J. and Mudford, N. R. Starting process in the nozzle of a nonreflected shock tunnel. (AIAA J, SYN) 265
- Starr, Chaucey and Rudman, Richard Parameters of technological growth. (A/A, June) 20
- Stauffer, Warren A., Lewolt, John G. and Hoblit, Frederic M. Application of advanced methods to design loads determination for the L-1011 transport. (JA) 449
- and Hoblit, Frederic M. Dynamic gust, landing, and taxi loads determination in the design of the L-1011. (JA) 459
- Steele, T. D. (A/A, May; see Poupard, R. E.)

- Steger, Joseph L. and Baldwin, Barrett S.** Shock waves and drag in the numerical calculation of compressible, irrotational transonic flow. (AIAA J, SYN) 903
- and Klineberg, John M.** A finite-difference method for transonic airfoil design. (AIAA J) 628
- (AIAA J; see Bailey, F. R.)
- Stehling, Kurt R.** (A/A, October; see Hunt, Jack R.)
- Steinberg, Sy, Uselton, Bob L., and Siemers, Paul M., III** Viking pitch damping derivatives as influenced by support interference and test techniques. (JSR) 443
- Steiner, Roy** (AIAA J; see Verdon, Joseph M.)
- Steinolfson, R. S.** Steady-state interactions in plasma accelerators. (AIAA J, SYN) 779
- Shock formation by a moving force field. (AIAA J, TN) 1201
- Stengel, Robert F.** Strategies for control of the space shuttle transition. (JSR) 77
- Some effects of bias errors in redundant flight control systems. (JA) 150
- Stepner, David E.** Modeling of aircraft position errors with independent surveillance. (AIAA J) 1273
- Stepniewski, W. Z.** (JA; see Schmitz, Fredric H.)
- Steven, Fred R.** Door to door short haul. (A/A, March) 32
- Stevens, Stanley J. and Fry, Peter** Measurements of the boundary-layer growth in annular diffusers. (JA) 73
- Stock, Hans W.** Role of the anelastic behavior of the ablation material on cross-hatching. (AIAA J, ERR) 1056
- Stoltz, R. A.** (AIAA J; see Lepore, J. A.)
- Stone, James R. and Gutierrez, Orlando A.** Target-type thrust reverser noise. (JA) 283
- Stone, Nobie H.** (AIAA J, TN; see Sheldon, John W.)
- Stoy, Robert L. and Ostrowski, Peter P.** Analysis of gas bubble-liquid coflow systems. (JH, EN) 46
- Strand, T.** Exact method of designing airfoils with given velocity distribution in incompressible flow. (JA) 651
- Streh, Henry A., Jr.** Pilot control of shuttle orbiter during approach and landing. (JA) 105
- Streckenbach, J. M.** (JA; see Blumenthal, V. L.)
- Stricklin, James A., Haisler, Walter E., and Von Riesemann, Walter A.** Evaluation of solution procedures for material and/or geometrically nonlinear structural analysis. (AIAA J) 292
- and Tillerson, Joe R.** Curved finite elements by the method of initial strains. (AIAA J, TN) 249
- Studwell, Victor E. and Wu, Jain-Ming** Prediction of airfoil shock location in transonic flow. (JA, EN) 636
- Sturek, Walter B.** Boundary-layer distortion on a spinning cone. (AIAA J, TN) 395
- Stryer, Eugene** Structures for air transports. (A/A, July) 36
- Subramanian, N. R. and Balakrishnan, M.** Transonic flow past lifting airfoils. (AIAA J, TN) 1766
- Sule, Wayne P. and Mueller, Thomas J.** Annular truncated plug nozzle flowfield and base pressure characteristics. (JSR) 689
- Sullivan, Henry C.** (AIAA J; see Kelley, Henry J.)
- Sullivan, John P., Widnall, Sheila E., and Ezekiel, Shaoul** Study of vortex rings using a laser Doppler velocimeter. (AIAA J) 1384
- Sullivan, P. A.** (AIAA J, SYN; see Koziak, W. W.)
- and Koziak, W. W.** Entropy layer effects in constant pressure hypersonic boundary layers. (AIAA J, TN) 730
- Summerfield, M.** (JSR; see Turk, S. L.)
- (AIAA J; see Kuo, K. K.)
- (AIAA J; see Peretz, A.)
- (JSR, EN; see Saraniero, M. A.)
- Sumner, William J.** (AIAA J; see Shanebrook, J.)
- Sun, Chen-Chih and Childs, Morris E.** A modified wall wake velocity profile for turbulent compressible boundary layers. (JA, EN) 381
- Sun, Chin-Teh and Whitney, J. M.** Theories for the dynamic response of laminated plates. (AIAA J) 178
- Sundarajan, C.** Vibration and stability of nondivergent elastic systems. (AIAA J, TN) 1418
- Sundararajan, V.** (JA, EN; see Raghavan, K. S.)
- Susko, Michael and Kaufman, John W.** Exhaust cloud rise and growth for Apollo Saturn engines. (JSR) 341
- Sutherland, Arthur A., Jr.** (AIAA J; see Deyst, John J., Jr.)
- Sutton, Emmett A.** (JSR, EN; see Draper, James Stark)
- Sutton, George W.** The AIAA journal and you. (AIAA J, E) 1
- Sutton, Kenneth and Falanga, R. A.** Stagnation region radiative heating with steady-state ablation during Venus entry. (JSR, EN) 155
- Swaim, Robert L.** (JA; see Schmidt, David K.)
- Swales, P. D.** (JH, EN; see McGregor, R. C.)
- Swamidas, A. S. J. and Kunukasseril, Vincent X.** Buckling of orthotropic circular plates. (AIAA J) 1633
- Swedlow, J. L.** (AIAA J; see Konish, H. J., Jr.)
- Swift, Calvin T.** (AIAA J; see Dunn, Michael G.)
- Syberg, Jan and Koncsek, Joseph L.** Bleed system design technology for supersonic inlets. (JA) 407
- Tabakoff, W.** (JA; see Hussein, M. Fathy)
- Talay, Theodore A., Morris, W. Douglas, and Whitlock, Charles H.** An advanced technique for the prediction of decelerator system dynamics. (JSR, EN) 817
- Tamekuni, M.** (AIAA J; see Viswanathan, A. V.)
- Tate, E.** (AIAA J; see Zauderer, B.)
- Tate, R. B.** (JA; see Blumenthal, V. L.)
- Taylor, J. E.** (AIAA J, TN; see Rossow, M. P.)
- Taylor, James J. and Faust, Nickolas L.** Viking type spacecraft rendezvous with the Martin moons. (JSR) 520
- Taylor, R. F.** (AIAA J; see Gwin, L. B.)
- Teixeira-Filho, Djalma, R. and Kane, Thomas R.** Spin stability of torque-free systems—Part I. (AIAA J) 862
- and Kane, Thomas R.** Spin stability of torque-free systems—Part II. (AIAA J) 868
- Teller, Aaron J.** Resources and pollution—Time (past?) for engineers to act. (A/A, June) 28
- Tene, Yair** (AIAA J, TC; see Sheinman, Izhak)
- Tennant, Jeffrey S.** A subsonic diffuser with moving walls for boundary-layer control. (AIAA J, TN) 240
- and Yang, T.** Turbulent boundary-layer flow from stationary to moving surfaces. (AIAA J) 1156
- (AIAA J, TN; see Reid, R. L.)
- Tennyson, R. C. and Muggeridge, D. B.** Buckling of laminated anisotropic imperfect circular cylinders under axial compression. (JSR) 143
- Terrier, M.** (AIAA J; see Valentin, P.)
- Teter, R. D.** (JSR; see Schneider, P. J.)
- Thomas, E. V.** (AIAA J; see Lu, Y. P.)
- Thomas, L. C.** (AIAA J, TN; see Gerhart, P. M.)
- Thomassen, K. I. and Tong, D.** Interferometric density measurements in the arc of a pulsed plasma thruster. (JSR, SYN) 163
- Radiation from pulsed electric thrusters. (JSR, EN) 679
- Thompson, Bernard M.** (JH; see Johnson, Robert S.)
- Thompson, David** (AIAA J, TN; see Perkins, Richard W., Jr.)
- Thompson, Robert J.** Computing meteorological effects on aircraft noise. (AIAA J, TN) 121
- Thomson, William T.** (AIAA J; see Caravani, Paolo)
- Tiffany, Charles** (A/A, July; see Haviland, George P.)
- Tillerson, Joe R.** (AIAA J, TN; see Stricklin, James A.)
- Ting, Edward C.** (AIAA J; see Ginsberg, Jerry H.)
- Tobias, Leonard** (JA; see McLean, John D.)
- Toda, Y., Nagaoka, T., Ueno, Z., Okada, Y., and Kunio, T.** Failure criterion for a propellant of spherical solid rocket motor. (JSR, EN) 807
- Todd, D. C.** (AIAA J, ERR; see Roux, J. A.)
- Todosiev, Ernest P.** Periodic attitude control of a slowly spinning spacecraft. (JSR) 716
- Tolson, Robert H.** (JSR, EN; see Blackshear, W. Thomas)
- Tombach, Ivar** Observations of atmospheric effects on vortex wake behavior. (JA) 641
- Tomlinson, Lloyd R.** Control system design considerations for a longitudinally unstable supersonic transport. (JA) 594
- Toms, Ralph M.** Elimination of square roots from ballistics equations. (JSR, EN) 815
- Tong, D.** (JSR, SYN; see Thomassen, K. I.)
- Tong, Kwok-On** (AIAA J; see Russell, David A.)
- Tong, Pin** (AIAA J, TN; see Mau, Sheng-Taur)
- Touryan, Kenell J.** (AIAA J, SYN; see Bailey, Paul B.)
- Trautwein, Wolfgang and Livingston, John M.** Computerized optimal control system design for boost vehicles. (JSR) 227
- Tripathi, Shiva S.** (JA; see Narendra, Kumpati S.)
- Triplett, William E., Kappus, Hans-Peter F., and Landy, Robert J.** Active flutter control—An adaptable application to wing/store flutter. (JA) 669
- Tripp, Leonard L.** (AIAA J; see Viswanathan, A. V.)
- Trujillo, Amado A.** (JSR; see Marshall, Billy W.)
- Tsang, Louis C.** (AIAA J, TN; see Moe, Mildred M.)
- Tso, F. K. W.** (AIAA J, TN; see Dong, S. B.)
- Tsui, C. Y.** (AIAA J; see Yang, J. C. S.)
- Tsuji, Hiroshi and Hirano, Toshisuke** Ion-current distributions around an electrically conductive body in ionized gas flow. (AIAA J, TN) 100
- (AIAA J, TN; see Hirano, Toshisuke)
- Tsushima, Hideya and Sevik, Maurice** Dynamic response of marine propellers to nonuniform flowfields. (JH) 71
- and Conway, Joseph C.** Experimental stress analysis of propeller blades utilizing photoelastic coating techniques. (JH, EN) 41
- Tucker, Henry J. and Ali, S. Firasat** Decay of anisotropic turbulence. (AIAA J, TN) 546
- Tuckmantel, D. L.** (AIAA J, TN; see Wang, A. S. D.)
- Turcotte, Donald L.** (AIAA J; see Robb, Barrett S.)
- Turk, S. L., Battista, R. A., Kuo, K. K., Caveny, L. H., and Summerfield, M.** Dynamic responses of solid rockets during rapid pressure change. (JSR) 137
- Tuttle, J. C.** (JSR; see Vaage, R. D.)
- Udlock, D. E.** (JSR, ERR; see Marsh, H. E., Jr.)
- Ueno, Z.** (JSR, EN; see Toda, Y.)
- Uncles, R. J.** The numerical prediction of streamer growth in MHD ducts. (AIAA J, TN) 1436
- Uphoff, C.** Numerical averaging in orbit prediction. (AIAA J) 1512
- Urbach, Kenneth** On-orbit checkout and repair as a factor in economical spacecraft design and operation. (A/A, April) 60
- Urban, Louis A.** Gas path analysis applied to turbine engine condition monitoring. (JA) 400
- Uselton, Bob L.** (JSR; see Steinberg, Sy)

- Vaage, R. D. and Tuttle, J. C. A computerized technique for mission profile design analysis. (JSR) 525
- Vaeth, J. Gordon (A/A, October; see Hunt, Jack R.)
- Vaicaitis, R. Generalized random forces for rectangular panels. (AIAA J) 984
- Valentin, P., Pinegre, M., and Terrier, M. Influence of gradient of velocity upon the resonant radiative transfer in plasma flows. (AIAA J) 1698
- Vamos, J. S. and Anderson, J. D., Jr. Time-dependent analysis of nonequilibrium nozzle flows with complex chemistry. (JSR, SYN) 225
- Van Dyke, Peter Bottom depth effects on regular surface waves due to a submerged Rankine body with attached vertical column. (JH) 78
- Van Tuyl, Andrew H. Calculation of nozzle flows using Padé fractions. (AIAA J) 537
- Vanyo, James P. Cavity radius vs energy dissipation rate in liquid-filled, precessing, spherical cavities. (AIAA J, SYN) 261
- Measurement of system inertia tensors in precessing nonrigid systems. (AIAA J, SYN) 577
- and Likins, Peter W. Use of baffles to suppress energy dissipation in liquid-filled precessing cavities. (JSR, SYN) 627
- Var, R. E. (JSR; see Gray, C. R.)
- Varwig, R. L. (AIAA J; see Spencer, D. J.)
- Vas, Irwin E. Heat flux probe as a flowfield diagnostic. (AIAA J, TN) 1576
- Vatsa, V. N. (AIAA J, TN; see Werle, M. J.)
- Vaughn, H. R. and Reis, G. E. A Magnus theory. (AIAA J) 1396
- Veilleux, Eugene D. Cold-plate design analysis for electronic equipment. (JSR, EN) 680
- Velkoff, Henry R. (AIAA J; see Blaser, Dwight A.)
- Vendhan, C. P. and Dhoopar, B. L. Nonlinear vibration of orthotropic triangular plates. (AIAA J) 704
- Ventres, C. S. (AIAA J, TN; see Dowell, E. H.)
- Verdon, Joseph M. and Steiner, Roy Response of a rigid aircraft to nonstationary atmospheric turbulence. (AIAA J) 1086
- Vermeulen, F. E. (AIAA J, TN; see Hepburn, J. D.)
- Veronda, D. R. (AIAA J, TN; see Weingarten, V. I.)
- Vetsch, G. J. (JA; see Kisslinger, R. L.)
- Vichnevetsky, R. (AIAA J; see Kuo, K. K.)
- Vinh, N. X. Minimum fuel rocket maneuvers in horizontal flight. (AIAA J) 165
- Integrals of the motion for optimal trajectories in atmospheric flight. (AIAA J) 700
- Viswanathan, A. V., Tamekuni, M., and Tripp, Leonard L. Elastic stability of biaxially loaded longitudinally stiffened composite structures. (AIAA J) 1553
- Vogt, Paul G. (JA; see Paterson, Robert W.)
- Vojvodich, Nick S. PAET entry heating and heat protection experiment. (JSR) 181
- Volpe, F. (JSR; see Mackison, D. L.)
- Volpe, Giuseppe (AIAA J, TN; see Morduchow, Morris)
- Vondra, Robert J. (JSR; see Solbes, Albert)
- Von Riesenmann, Walter A. (AIAA J; see Stricklin, James A.)
- Vos, Robert G. and Armstrong, William H. Improved hardening theory for cyclic plasticity. (AIAA J, TN) 400
- Waco, David E. and Ashburn, Edward V. Turbulence variations during the high altitude clear air turbulence (HICAT) program. (JA, EN) 56
- Wagner, Jerry L. (AIAA J, TN; see Anderson, John D., Jr.)
- Wagner, R. D. Optimal skin thickness variations for active cooled panels. (JA, EN) 572
- Wakefield, Roy M. and Peterson, David L. Graphite ablation in combined convective and radiative heating. (JSR) 149
- Walling, H. C. and Forrestal, M. J. Elastic-plastic expansion of 6061-T6 aluminum rings. (AIAA J, TN) 1196
- (AIAA J, TC; see Forrestal, M. J.)
- Walton, C. R. (JH, EN; see Gilreath, H. E.)
- Waltrup, P. J. and Schetz, J. A. Supersonic turbulent boundary layer subjected to adverse pressure gradients. (AIAA J) 50
- and Billig, F. S. Structure of shock waves in cylindrical ducts. (AIAA J) 1404
- and Billig, F. S. Prediction of precombustion wall pressure distributions in scramjet engines. (JSR, EN) 620
- Wan, F. Y. M. and Lakshminathan, C. Rotor blade response to random loads: A direct time-domain approach. (AIAA J) 24
- Wang, A. S. D. and Tuckmantel, D. L. Elastic wave surfaces in heterogeneous anisotropic plates. (AIAA J, TN) 1571
- Wang, James Ting-Shun and Lin, Yu-Jyi Stability of discretely stringer-stiffened cylindrical shells. (AIAA J) 810
- Wang, Peter (JA, EN; see Cheng, Dah Yu)
- Wardle, Michael D., Irons, Alexander S., and Green, Richard H. Planetary quarantine goes to work in the hospital. (A/A, June) 32
- Warming, R. F., Kutler, Paul, and Lomax, Harvard Second- and third-order noncentered difference schemes for nonlinear hyperbolic equations. (AIAA J) 189
- (AIAA J; see Kutler, Paul)
- Warner, William H. (AIAA J; see Sippel, David L.)
- Warren, D. S. Tomorrow's structural engineering. (A/A, July) 48
- Warren, R. S. (AIAA J; see Gelb, A.)
- Warren, Shields Developments in space medicine. (A/A, January) 18
- Wasserstrom, Eliahu Identification of parameters by the continuation method. (AIAA J) 1097
- Waters, Mark H. (JA; see Petersen, Richard H.)
- Watkins, C. B. Laminar symmetry-plane boundary layer on a sharp spinning body at incidence. (AIAA J, TN) 559
- Watson, Ralph D. Corner pressures and fillet shock locations for symmetrical corners by an approximate method. (JSR, EN) 90
- Wayte, Michael J. and Gruenich, Fredric A. Determination of rocket ignition induced silo transient pressures using an expansion tube. (JSR, EN) 602
- Weathers, Terry M. NASA contributions to fluidic systems. (JSR, SYN) 417
- Weber, Robert C. (AIAA J, SYN; see Davis, Robert L.)
- Webster, K. A. (AIAA J; see Platzter, M. F.)
- Weetman, R. J. and Cromack, D. E. Calculation of inlet flows applied to ducted propellers. (JH) 153
- Weidenbaum, Murray L. Government spending and innovation. (A/A, November) 32
- Weih, D. and Gal-or, B. Calculation of shock wave relaxation zones including dissipative transport phenomena. (AIAA J, TN) 108
- Weingarten, L. I. and Reismann, H. Forced motion of cylindrical shells: A comparison of shell theory with elasticity theory. (AIAA J, SYN) 769
- Weingarten, V. I., Veronda, D. R., and Saghera, S. S. Buckling of segments of toroidal shells. (AIAA J, TN) 1422
- Weinstein, Leonard M. Hot-wire coil probe for high-speed flows. (AIAA J, TN) 1772
- Weisshaar, Terrance A. and Ashley, Holt Static aeroelasticity and the flying wing. (JA) 586
- Weissman, Robert Preliminary criteria for predicting departure characteristics/spin susceptibility of fighter-type aircraft. (JA) 214
- Wells, William R. (JSR; see Slater, Gary L.)
- (AIAA J, TN; see Schiess, J. R.)
- Wen, L., Crotty, J. D., and Pawlik, E. V. Ion thruster thermal characteristics and performance. (JSR) 35
- Wessling, F. C. (AIAA J, TN; see Maxwell, Barry R.)
- Werle, M. J., Dwoyer, D. L., and Hankey, W. L. Initial conditions for the hypersonic-shock/boundary-layer interaction problems. (AIAA J) 525
- (AIAA J, TN; see Hankey, W. L.)
- Vatsa, V. N., and Bertke, S. D. Sweep effects on supersonic separated flows—A numerical study. (AIAA J, TN) 1763
- Weston, Kenneth C. (AIAA J; see Howe, John T.)
- and Reddy, R. S. Reflectance and unsteady temperature distribution of diffuse reflectors. (AIAA J, TN) 1775
- (AIAA J, ERR; see Howe, John T.)
- White, C. O. (AIAA J; see Grabow, R. M.)
- and Grabow, R. M. Crosshatch surface patterns—Comparison of experiment with theory. (AIAA J) 1316
- White, Frank M. (AIAA J, TN; see Christoph, George H.)
- White, F. M., Lessmann, R. C., and Christoph, G. H. Analysis of turbulent skin friction in thick axisymmetric boundary layers. (AIAA J) 821
- White, K. C. (JA; see Denery, D. G.)
- White, R. E. (JSR, EN; see Norton, D. J.)
- White, Robin J. (JH; see Sanders, James V.)
- Whiteside, John (JA; see Kahn, Stanley D.)
- Whitfield, David L. Mean free path of emitted molecules and correlation of sphere drag data. (AIAA J) 1666
- Smithson, H. K., and Price, L. L. Plume boundary jump of an underexpanded jet exhausting counter to a freestream. (AIAA J, TN) 1336
- Whitlock, Charles H. Advances in modeling aerodynamic decelerator dynamics. (A/A, April) 67
- (JSR, EN; see Talay, Theodore, A.)
- Whitney, J. M. (AIAA J; see Sun, Chin-Teh)
- Whyte, Robert H. and Mermagen, William H. A method for obtaining aerodynamic coefficients from yawsonde and radar data. (JSR) 384
- Widnall, Sheila E. (AIAA J; see Sullivan, John P.)
- Widnall, William S. Enlarging the region of convergence of Kalman filters employing range measurements. (AIAA J) 283
- Wilbur, Paul J. Effects of the hollow cathode discharge on throttled ion thruster performance. (JSR, SYN) 3
- Correlation of ion and beam current densities in Kaufman thrusters. (JSR, EN) 623
- Wilcox, David C. Calculation of turbulent boundary-layer shock-wave interaction. (AIAA J, TN) 1592
- Wilhelm, W. E. and Schmidt, J. W. A view of air traffic control in future terminal areas. (JA) 366
- Willems, Pierre Y. (AIAA J; see Campion, Guy)
- Williams, Bill Advanced technology transport configuration. (JA) 323
- Williams, D. (JH; see Edgerton, A. T.)
- Williams, Donald W. (AIAA J, TN; see Jeng, D. R.)
- Williams, F. A. Quasi-steady gas-phase flame theory in unsteady burning of a homogeneous solid propellant. (AIAA J, TN) 1328
- Williams, James H., Jr. Inextensional approximations in cylindrical shells. (AIAA J, TN) 1213
- Williams, Ronald R. (JSR, EN; see Williamson, Ronald A.)
- Williams, S. D. (AIAA J; see Curry D. M.)
- Williamson, Ronald A., Rinehart, W. A., and Williams, Ronald R. Laser activated, model surface recession compensator system for testing ablative materials. (JSR, EN) 684
- Williamson, W. E. and Eller, T. J. Riccati transformation for gradient optimization techniques. (AIAA J, TN) 881

- Wilson, James F.** Response of simple spans to moving mass loads. (AIAA J, SYN) 4
- Wilson, R. E.** Aerodynamic interference of pitot tubes in a turbulent boundary layer at supersonic speed. (AIAA J, TN) 1420
- Wingrove, Rodney C.** Quasi-linearization technique for estimating aircraft states from flight data. (JA) 303
- Winn, C. Byron** (JSR; see Duong, Nguyen)
- Winter, Robert** Reply by author to M. J. Forrestal, M. J. Sagartz, and H. C. Walling. (AIAA J, TC) 1355
- Wise, Frank D.** Airborne recording and its future with the airlines. (JA) 232
- Witmer, Emmett A.** (JA; see Wu, Richard W.-H.)
 — (AIAA J; see Wu, Richard W.-H.)
 — (AIAA J, TN; see Leech, John W.)
 — (AIAA J, TN; see Wu, Richard W.-H.)
- Witte, K. J.** (AIAA J; see Brederlow, G.)
- Wolf, John P.** Generalized hybrid stress finite-element models. (AIAA J, TN) 386
- Wolko, H. S.** (JSR, EN; see Campo, A.)
- Woo, H. K., Kirmser, P. G., and Huang, C. L.** Vibration of orthotropic circular plates with a concentric isotropic core. (AIAA J, TN) 1421
- Wood, Lincoln J. and Bryson, Arthur E., Jr.** Second-order optimality conditions for variable end time terminal control problems. (AIAA J) 1241
- Wood, Stanley E.** (AIAA J, TN; see Bryant, James T.)
- Worden, John D.** (JSR; see Herron, Bill G.)
- Wright, A. J.** (JH, EN; see McGregor, R. C.)
- Wu, Jain-Ming** (JA, EN; see Studwell, Victor E.)
- Wu, Jin** Injection of drag-reducing polymers into a turbulent boundary layer. (JH, EN) 129
 — Near-field trajectory of turbulent jets discharged at various inclinations into a uniform crossflow. (AIAA J, TN) 1579
- Wu, Peter and Libby, Paul A.** Laminar boundary layer on a cone near a plane of symmetry. (AIAA J) 326
 — and Libby, Paul A. Nonsimilar flows between the solution branches of the Falkner-skane equation. (AIAA J, TN) 112
- Wu, Richard W.-H. and Witmer, Emmett A.** Approximate analysis of containment/deflection ring responses to engine rotor fragment impact. (JA) 28
 — and Witmer, Emmett A. Nonlinear transient responses of structures by the spatial finite-element method. (AIAA J) 1110
 — and Witmer, Emmett A. Stability of the De Vogelaere method for timewise numerical integration. (AIAA J, TN) 1432
- Wu, S. M.** (JSR; see Joglekar, A. M.)
- Yan, Miin-Jeng and Dowell, E. H.** High-damping measurements and a preliminary evaluation of an equation for constrained-layer damping. (AIAA J, TN) 388
- Yang, H. T.** Reply by author to A. H. Flax. (AIAA J, TC) 896
- Yang, J. C. S. and Tsui, C. Y.** Experimental and theoretical investigation of stress wave attenuation by inclusions. (AIAA J) 472
- Yang, T.** (AIAA J; see Tennant, J. S.)
- Yang, T. Y. and Kim, H. W.** Vibration and buckling of shells under initial stresses. (AIAA J) 1525
- Yeh, Hsuan** (AIAA J, TN; see Sherman, Arthur)
- Yeh, L. T.** (JSR, SYN; see Chung, Benjamin T. F.)
 — (JSR, EN; see Chung, Benjamin T. F.)
 — (JSR, ERR; see Chung, Benjamin T. F.)
- Yeh, T. T.** (AIAA J, TN; see Rosciszewski, J. J.)
- Yoo, Chong-Yul and Porter, Robert W.** Numerical analysis of the viscous, hypersonic, MHD blunt-body problem. (AIAA J, TN) 383
- Yoo, Young Sik** (AIAA J; see Haviland, John Kenneth)
- York, Thomas M.** (AIAA J, SYN; see Michels, Charles J. .)
- Yoshikawa, Kenneth K.** Variational solution to the radiative equation by the use of a step function II. Extension to nonlinear case by iteration method. (AIAA J) 19
- Young, Dana** Stiffness matrix for a beam with an axial force. (AIAA J, TN) 246
- Young, James C.** (JSR; see Norton, David J.)
- Young, Maurice I.** The influence of pitch and twist on blade vibrations. (JA, EN) 383
 — The dynamics of blade pitch control. (JA, EN) 446
- Young, Warren** (AIAA J, TN; see Burkhard, Alan)
- Yu, James C.** (AIAA J, TC; see Dosanjh, Darshan S.)
- Yu, Yi-Yuan** Reply by author to A. Das. (JSR, TC) 288
- Yuen, M. C.** (AIAA J, SYN; see Nowak, Robert J.)
- Yuska, J. A.** (JA; see Lieblein, S.)
- Zafran, Sidney, Beynon, John C., Kidd, Philip W., Shelton, Haywood, and Jackson, Frederick A.** One-mlb colloid thruster system development. (JSR, EN) 531
- Zappa, O. L. and Reinecke, W. G.** An experimental investigation of base heating on typical Mars entry body shapes. (JSR, EN) 273
- Zauderer, B. and Tate, E.** Electrode and gasdynamic effects in a large nonequilibrium MHD generator. (AIAA J) 149
- Zeierman, I. and Manheimer-Timnat, Y.** Full control of solid propellant rockets by secondary injection. (JSR, SYN) 161
- Zeitfuss, W., Jr.** (JH; see Brooks, E. N., Jr.)
- Zelazny, S. W., Morgenthaler, J. H., and Herendeen, D. L.** Shear stress and turbulence intensity models for coflowing axisymmetric streams. (AIAA J) 1165
- Zickler, Jeffrey L.** (JSR, EN; see Bertin, John J.)
- Zien, Tse-Fou** Reply by author to G. R. Inger. (AIAA J, TC) 1357
- Zinko, H.** (AIAA J; see Brederlow, G.)
- Zinn, B. T., Bell, W. A., Daniel B. R., and Smith, A. J., Jr.** Experimental determination of three-dimensional liquid rocket nozzle admittances. (AIAA J) 267
 — Nozzle damping in solid rocket instabilities. (AIAA J) 1492
- Zipfel, Peter H.** Perturbation methods in atmospheric flight mechanics. (AIAA J) 1247
- Zwieback, E. L.** Flyover noise testing of commercial jet airplanes. (JA) 538