

Index of Papers Published in Journal of Aircraft

Volume 3—January through December 1966

Issue	Pages	Issue	Pages
January–February	1–96	July–August	289–384
March–April	97–192	September–October	385–480
May–June	193–288	November–December	481–608

EN, TC, and SA indicate Engineering Note, Technical Comment, and Survey Article, respectively.

AUTHORS

Addy Alva L. (see Korst, Helmut H.)
 Allen, Donald R. and Ballinger, Herbert W. Small arms fire effects on aluminum honeycomb panels. (EN)..... 164
 Amsler, R. C. (see Thurston, S.)
 Andersen, W. Lee (see Bagby, C. L.)
 Andrew, G. M. (see Cahn, M. S.)
 Andrews, William H. (see Sadoff, Melvin)
 Azuma, Akira (see Washizu, Kyuichiro)
 Bagby, C. L. and Andersen, W. Lee. Effect of turbofan cycle variables on aircraft cruise performance..... 385
 Baker, Robert D. Measurement of takeoff and landing performance using an airborne motion picture camera..... 59
 Ballinger, Herbert W. (see Allen, Donald R.)
 Barnes, J. F. (see Glenn, R. J. E.)
 Beard, M. G. Status report on latest development in clear air turbulence..... 443
 Beck, Woodrow E. (see Traksel, John)
 Bennett, Robert M. (see Gilman, Jean Jr.)
 Blake, Margaret (see Jones, David I. G.)
 Blick, Edward F. (see Fisher, Donald H.)
 Boskovich, B. and Kaufmann, R. E. Evolution of the Honeywell first-generation adaptive autopilot and its applications to F-94, F-101, X-15, and X-20 vehicles..... 296
 Bovaird, R. L. (see Ellis, D. S.)
 Bray, Richard S. (see Sadoff, Melvin)
 Brown, John R. Advanced hydro-ski vehicles for amphibious warfare (MSS)..... 91
 Bunker, D. R. and Dibble, D. R. Technique for evaluation and analysis of maintainability (TEAM). (EN)..... 252
 Burroughs, J. D. Dynamic testing of the 80-knot hydrofoil craft FRESH-1. (MSS)..... 284
 Byrnes, A. L., Hensleigh, W. E., and Tolve, L. A. Effect of horizontal stabilizer vertical location on the design of large transport aircraft..... 97
 Cahn, M. S., Stevens, J. R., Andrew, G. M., and Garcia, J. R. Stability derivatives by rheoelectric analog. (EN)..... 590
 Cannon, C. H. Military and civil all weather landing systems for C-141..... 529
 Caraher, J. M. (see Reisman, C. A.)
 Carlson, Harry W. (see Jackson, Charlie M. Jr.)
 Chow, Wen L. (see Korst, Helmut H.)
 Clark, James W. (see Miller, David P.)
 Conolly, Alan C. Designing for cavitation-free operation on hydrofoils with NACA 16-series sections..... 598
 Crichlow, W. J. and Sorenson, V. S. Advancements in monofilament structural composite technology..... 431
 Denke, P. H. (see Przemieniecki, J. S.)
 Dibble, D. R. (see Bunker, D. R.)
 Dufrane, Kenneth H. An underwater thermoelectric reactor plant. (MSS)..... 376
 Ellis, D. S. and Bovaird, R. L. Tactical avionics maintenance simulation..... 158
 Emero, Donald H. and Spunt, Leonard Wing box optimization under combined shear and bending..... 130
 Evanbar, M. S. (see Thurston, S.)
 Falk, Felix (see Grenleski, Stephen E.)
 Fisher, Donald H. and Blick, Edward F. Turbulent damping by flabby skins. (EN)..... 163
 Freschl, Edward, Jr. and Steel, Elbert S. Development of the XB-70A propulsion system..... 147
 Fuller, J. R. Strength margins for combined random stresses..... 124
 Garcia, J. R. (see Cahn, M. S.)
 Gardner, J. (see Jones, James C.)
 Gearhart, Walter S. and Henderson, Robert E. Selection of a propulsor for a submersible system. (MSS)..... 84
 —Tip clearance cavitation in shrouded underwater propulsors. (MSS)..... 185
 Gibbings, J. C. An empiric correlation of some transonic aerofoil characteristics..... 411
 Gilman, Jean, Jr. and Bennett, Robert M. A wind-tunnel technique for measuring frequency-response functions for gust load analyses..... 535
 Glenn, R. J. E. and Barnes, J. F. Some materials and cooling techniques applicable to air-breathing engines at high flight speeds..... 507
 Gregory, Thomas J. (see Petersen, Richard H.)
 Grenleski, Stephen E. and Falk, Felix An investigation of catalytic ignition of JP-5 and air mixtures..... 141

Ham, Norman D. and Young, Maurice I. Torsional oscillation of helicopter blades due to stall..... 218
 Handler, Eugene H. Tilt and vertical float aircraft for open ocean operations. (SA)..... 481
 Harris, Roy V. Jr. (see Robins, A. Warner)
 Hartofilis, S. A. (see Kaufman, L. G. II)
 Haselton, Frederick R., Wilson, William G., and Rice, Roy S. Tandem propeller concept of submarine propulsion and control (MSS)..... 180
 Heinrich, Helmut G. and Jamison, L. R., Jr. Parachute stress analysis during inflation and at steady state..... 52
 —Aerodynamics of the supersonic guide surface parachute..... 105
 Hemsworth, Martin C. (see Neitzel, Robert E.)
 Henderson, Robert E. (see Gearhart, Walter S.)
 Hensleigh, W. E. (see Byrnes, A. L.)
 Hesse, Walter J. (see Josephs, Lyman C. III)
 Hirsch, D. L. and McCormick, R. L. Experimental investigation of pilot dynamics in a pilot-induced oscillation situation..... 567
 Hirtreiter, Walter J. (see Statler, Irving C.)
 Hohenemser, Kurt H. Flow induction by rotary jets..... 18
 — and Porter, J. L. Contribution to the theory of rotary jet flow induction..... 339
 Horikoshi, Jiro Elevator control system stiffness adaptive to optimum longitudinal control response..... 318
 Jackley, D. N. (see Reisman, C. A.)
 Jackson, Charlie M., Jr. and Carlson, Harry W. Nomograms for determining sonic-boom overpressure (EN)..... 74
 Jamison, L. R., Jr. (see Heinrich, Helmut G.)
 Johns, D. J. (see Rhodes, A. J.)
 Johnson, Arnold R., Mead, Harold R., and Scheuing, Richard A. Beneficial interference effects obtained with ring wings at supersonic speeds..... 111
 Johnson, Virgil E. Jr. Water-jet propulsion for high-speed hydrofoil craft. (MSS)..... 174
 Jones, David I. G. and Blake, Margaret Stability of ground effect machines..... 118
 —Hovering performance of plenum chamber GEMS over land and water..... 333
 Jones, James C. and Gardner, J. An airborne digital navigation system in an ASW aircraft, MOD 1..... 154
 Josephs, Lyman C. III and Hesse, Walter J. Survey of significant technical problems unique to VSTOL encountered in the development of the XC-142A..... 3
 aplan, Paul and Lehman, August F. Experimental studies of hydroelastic instabilities of cavitating hydrofoils. (MSS)..... 262
 Kaufman, L. G. II, Meckler, L., and Hartofilis, S. A. An investigation of flow separation and aerodynamic controls at hypersonic speeds..... 555
 Kaufmann, R. E. (see Boskovich, B.)
 Kidd, Rex O. Application of statistical experimental design techniques to flight-test programs..... 67
 Kikuhara, Shizuo and Tokuda, Koichi A new STOL flying boat design..... 462
 Kisslinger, Robert L. and Vetsch, George J. Manual terrain-following system development for a supersonic fighter aircraft..... 305
 Koo, Jiro (see Washizu, Kyuichiro)
 Korst, Helmut H., Addy, Alva L., and Chow, Wen L. Installed performance of air-augmented nozzles based on analytical determination of internal ejector characteristics..... 498
 Kramer, Kenneth C. A-7A AFCS: A flight-proved high-gain system..... 454
 Kuchinka, A. J. Prediction of off-runway takeoff and landing performance..... 213
 Kutney, J. T. Propulsion system development for V/STOL transports..... 489
 Lappe, U. Oscar Low-altitude turbulence model for estimating gust loads on aircraft..... 41
 Lawrence, Kent L. Bending-torsion transfer matrices associated with swept surfaces. (EN)..... 478
 Lehman, August F. An experimental study of the dynamic and steady-state flow disturbances encountered by aircraft during a carrier landing approach..... 208
 —(see Kaplan, Paul)
 Levine, Boris Using maintenance float to measure the value of maintainability and reliability. (EN)..... 588
 Libove, Charles Buckling of a compression member in a rigid-joint truss. Part I: Equal end restraints..... 347
 Lynn, Robert R. Wing-rotor interactions..... 326
 Macoy, Norman H. (see Norman, Sol M.)
 Mallery, C. G. and Neebe, F. C. Flight test of General Electric self-adaptive control..... 449

McCormick, R. L. (see Hirsch, D. L.)	
McGregor, D. M. and Smith, R. E. Handling qualities research at the National Aeronautical Establishment, Ottawa, using airborne V/STOL simulators.	578
Mead, Harold R. (see Johnson, Arnold R.)	
Meckler, L. (see Kaufman, L. G. II)	
Milla, J. H. and Blick, E. F. Lift and drag characteristics of a biannular wing airplane (EN).	586
Miller, David P. and Clark, James W. Investigation of the use of vectored thrust during carrier landings.	310
Miller, Leonard D. (see Stroud, John F.)	
Monk, John R. (see Wallace, Richard E.)	
Montgomery, Raymond C. and Moul, Martin T. Analysis of deep-stall characteristics of T-tailed aircraft configurations and some recovery procedures.	562
Morris, Odell A. (see Robins, A. Warner)	
Moul, Martin T. (see Montgomery, Raymond C.)	
Nakamura, Yasuharu and Tanabe, Yoshikazu. Some experimental contributions on single degree-of-freedom flutter in two-dimensional low supersonic flow.	465
Neebe, F. C. (see Mallery, C. G.)	
Neitzel, Robert E. and Hemsworth, Martin C. High-bypass turbofan cycles for long-range subsonic transports.	354
Norman, Sol M. and Macey, Norman H. Inference of clear air turbulence by means of an airborne infrared system.	289
Norton, D. A. (see Olason, M. L.)	
Noyes, Joseph V. Design of an aircraft utilizing fiberglass reinforced primary structure.	436
Oka, Tōichi (see Washizu, Kyūichiro)	
Olason, M. L. and Norton, D. A. Aerodynamic design philosophy of the Boeing 737.	524
Parks, Jerry K. Development of a multichannel optical correlation detector for sonar signals. (MSS)	278
Payne, Peter R. On the resistance of blunt forms.	592
Petersen, Richard H., Gregory, Thomas J., and Smith, Cynthia L. Some comparisons of turbofanjet-powered hypersonic aircraft for cruise and boost missions.	398
Peterson, George P. Advanced composites for structures.	426
Petrie, David M. Operational and developmental experience on the U. S. Navy hydrofoil "high point" (MSS).	79
Petroff, Alex N. Comments on "Nuclear-powered surface effect ship design problems" (TC).	78
Pearcey, B. J. and VerSnyder, F. L. A new development in gas turbine materials: The properties and characteristics of PWA 664	390
Porter, J. L. (see Hohenemser, K. II)	
Postlewaite, John E. Thrust performance of suppressor nozzles. (EN)	587
Przemieniecki, J. S. and Denke, P. H. Joining of complex substructures by the matrix force method.	236
Ray, Edward J. (see Taylor, Robert T.)	
Reisman, C. A., Caraher, J. M., and Jackley, D. N. Combustion system for an underwater thermal propulsion system. (MSS)	365
Rhodes, A. J. and Johns D. J. Chordwise divergence of rectangular flat plate wings at supersonic speeds (EN).	76
Rice, Roy S. (see Haselton, Frederick R.)	
Robins, A. Warner, Morris, Odell A., and Harris, Roy V., Jr. Recent research results in the aerodynamics of supersonic vehicles.	573
Rodgers, Edward J. Relationship between the neutral point, maneuver point, and center of gravity for stability. (TC)	479
Roseman, T. Detachable communications relay pods. (EN)	250
Sadoff, Melvin, Bray, Richard S., and Andrews, William H. Summary of NASA research on jet transport control problems in severe turbulence.	193
Saltzman, A. R. Closed loop thermal process control of airborne electronic equipment.	244
Schaufele, Roger D. (see Shevell, Richard S.)	
Scheuing, Richard A. (see Johnson, Arnold R.)	
Schmidt, Carl F. Looking backward—and forward (EDITORIAL).	1
Segel, Leonard. A method for predicting nonperiodic air loads on a rotary wing.	541
Shevell, Richard S. and Schaufele, Roger D. Aerodynamic design features of the DC-9.	515
Smith, Cynthia L. (see Petersen, Richard H.)	
Smith, R. E. (see McGregor, D. M.)	
Smith, Ralph H. VTOL control power requirements reappraised.	11
Sorenson, V. S. (see Crichlow, W. J.)	
Spunt, Leonard (see Emery, Donald H.)	
Stapleford, Robert L. (see Teper, Gary L.)	
Statler, Irving C., Tufts, Orren B., and Hirtreiter, Walter J. A new capability for measuring dynamic air loads in a wind tunnel.	418
Steel, Elbert S. (see Freschl, Edward Jr.)	
Steils, William T. Jr. V/STOL hover control system analysis.	469
Steiner, Roy. A review of NASA high-altitude clear air turbulence sampling programs.	48
Stevens, J. R. (see Cahn, M. S.)	
Stroud, John F. and Miller, Leonard D. Hypersonic inlet boundary-layer research.	548
Surry, Jean C. Three-dimensional flow characteristics about a curved circular cylinder (EN).	73
Tanabe, Yoshikazu (see Nakamura, Yasuharu)	
Taylor, Robert T. and Ray, Edward J. Factors affecting the stability of T-tail transports.	359
Teper, Gary L. and Stapleford, Robert L. An assessment of the lateral-directional handling qualities of a large aircraft in the landing approach.	201
Thurston, S. and Amsler, R. C. Review of marine propellers and ducted propeller propulsive devices. (MSS)	255
— and Evanbar, M. S. Efficiency of a propulsor on a body of revolution-inducting boundary-layer fluid. (MSS)	270
Tindell, Runyon H. A concise approach to V/STOL propulsion.	231
Tokuda, Koichi (see Kikuhara, Shizuo)	
Tolve, L. A. (see Byrnes, A. L.)	

Traksel, John and Beck, Woodrow E. Waterjet propulsion for marine vehicles. (MSS)	167
Tufts, Orren B. (see Statler, Irving C.)	
van Eepoel, Robert P. Ocean bottom scanning sonar (EN)	95
VerSnyder, F. L. (see Pearcey, B. J.)	
Vetsch, George J. (see Kisslinger, Robert L.)	
Wallace, Richard E. and Monk, John R. A technique for testing airfoil sections at transonic speeds.	35
Washizu, Kyūichiro, Azuma, Akira, Koo, Jiro, and Oka, Tōichi. Experiments on a model helicopter rotor operating in the vortex ring state.	225
Wilson, William G. (see Haselton, Frederick R.)	
Wollner, Bertram C. Response of hypersonic winged vehicles to abrupt control displacements.	30
Yates, E. Carson Jr. Modified-strip analysis method for predicting wing flutter at subsonic to hypersonic speeds.	25
Yoshihara, Hideo. Optimum fully cavitated hydrofoils at zero cavitation number. (MSS)	372
Young, Maurice I. (see Ham, Norman D.)	

SUBJECTS

AERODYNAMICS OF BODIES, COMBINATIONS, AND INTERNAL FLOW

AERODYNAMICS OF WINGS, ROTORS, AND CONTROL SURFACES

Response of hypersonic winged vehicles to abrupt control displacements. Bertram C. Wollner.	30
A technique for testing airfoil sections at transonic speeds. Richard E. Wallace and John R. Monk.	35
Aerodynamics of the supersonic guide surface parachute. Helmut G. Heinrich.	105
Beneficial interference effects obtained with ring wings at supersonic speeds. Arnold R. Johnson, Harold R. Mead, and Richard A. Scheuing.	111
An experimental study of the dynamic and steady-state flow disturbances encountered by aircraft during a carrier landing approach. August F. Lehman.	208
Experiments on a model helicopter rotor operating in the vortex ring state. Kyūichiro Washizu, Akira Azuma, Jiro Kōo, and Tōichi Oka.	225
Wing-rotor interactions. Robert R. Lynn.	326
Factors affecting the stability of T-tail transports. Robert T. Taylor and Edward J. Ray.	359
An empiric correlation of some transonic aerofoil characteristics. J. C. Gibbings.	411
A new capability for measuring dynamic air loads in a wind tunnel. Irving C. Statler, Orren B. Tufts, and Walter J. Hirtreiter.	418
A method for predicting nonperiodic air loads on a rotary wing. Leonard Segel.	541
Recent research results in the aerodynamics of supersonic vehicles. A. Warner Robins, Odell A. Morris, and Roy V. Harris Jr.	573
Chordwise divergence of rectangular flat plate wings at supersonic speeds. A. J. Rhodes and D. J. Johns (EN).	76
Turbulent damping by flabby skins. Donald H. Fisher and Edward F. Blick (EN).	163
Lift and drag characteristics of a biannular wing airplane. J. H. Milla and E. F. Blick (EN).	586
Relationship between the neutral point, maneuver point, and center of gravity for stability. Edward J. Rodgers (TC).	479

AIRCRAFT

Survey of significant technical problems unique to VSTOL encountered in the development of the XC-142A. Lyman C. Josephs III and Walter J. Hesse.	3
VTOL control power requirements reappraised. Ralph H. Smith.	11
Low-altitude turbulence model for estimating gust loads on aircraft. U. Oscar Lappe.	41
Measurement of takeoff and landing performance using an airborne motion picture camera. Robert D. Baker.	59
Application of statistical experimental design techniques to flight-test programs. Rex O. Kidd.	67
Effect of horizontal stabilizer vertical location on the design of large transport aircraft. A. L. Byrnes, W. E. Hensleigh, and L. A. Tolve.	97
Stability of ground effect machines. David I. G. Jones and Margaret Blake.	118
Summary of NASA research on jet transport control problems in severe turbulence. Melvin Sadoff, Richard S. Bray, and William H. Andrews.	193
An assessment of the lateral-directional handling qualities of a large aircraft in the landing approach. Gary L. Teper and Robert L. Stapleford.	201
Prediction of off-runway takeoff and landing performance. A. J. Kuchinka.	213
Elevator control system stiffness adaptive to optimum longitudinal control response. Jiro Horikoshi.	318
Hovering performance of plenum chamber GEMs over land and water. David I. G. Jones.	333
Some comparisons of turbofanjet-powered hypersonic aircraft for cruise and boost missions. Richard H. Petersen, Thomas J. Gregory, and Cynthia J. Smith.	398
Flight test of General Electric self-adaptive control. C. G. Mallery and F. C. Neebe.	449