

AIAA Journal

TECHNICAL NOTES AND COMMENTS

NOTES

Twisted Beam Transducer: Frequency Shifts in Vibrating Modes of Beams under Twist.....	A. M. Voutsas	911
Design Criteria for Wind-Induced Flight Loads on Large Boosted Vehicles.....	L. L. Mazzola	913
Effects of Surface Curvature on Laminar Boundary-Layer Flow.....	N. Hayasi	914
Some Physical Interpretations of Magnetohydrodynamic Duct Flows.....	F. Sakao	915
Unification of Matrix Methods of Structural Analysis.....	F. V. Filho	916
Chemical-Reaction and Volume-Viscosity Effects in Linearized Nonequilibrium Flows.....	L. G. Napolitano	917
Location of the Normal Shock Wave in the Exhaust Plume of a Jet.....	D. W. Eastman and L. P. Radtke	918
Measurements of Thermal Conductivity of Porous Anisotropic Materials.....	O. E. Tewfik	919
Recovery of Water or Oxygen by Reduction of Lunar Rock.....	B. B. Carr	921
Nonlinear Lifting-Surface Theory Especially for Low-Aspect-Ratio Wings.....	K. Gersten	924
Cylindrical Heat Flow with Arbitrary Heating Rates.....	J. E. Phythian	925
Alternate Interpretation of Newton's Second Law.....	M. Bottaccini	927
Singular Line of the Method of Integral Relations.....	C. P. Kentzer	928
Gas-Phase and Surface Atom Recombination for Stagnation Boundary Layer.....	P. M. Chung and S. W. Liu	929
Subsonic Wing Span Efficiency.....	R. C. Frost and R. Rutherford	931
Approximate Method for Calculating the Compressible Laminar Boundary Layer.....	W. Pechau	933
Aspects of Adjustment of Separated Flow Regions to Transient External Flows.....	H. K. Ihrig Jr. and H. H. Korst	934
Free-Convection Laminar Boundary Layers in Oscillatory Flow.....	R. S. Nanda and V. P. Sharma	937
Structural Damping.....	R. H. Scanlan and A. Mendelson	938
Effects of Mass Addition on Stability of Slender Cones at Hypersonic Speeds.....	C. A. Syvertson and J. B. McDewitt	939
Transient "Thin-Wall" Technique in Measuring Heat Transfer Rates in Hypersonic Separated Flows.....	K. M. Nicoll	940
Delaying Effect of Rotation on Laminar Separation.....	W. H. H. Banks and G. E. Gadd	941
Further Note on Propagation of Thermal Disturbances in Rarefied-Gas Flows.....	J. G. Logan	942
Further Note on Propagation of Transverse Disturbances in Rarefied-Gas Flows.....	J. G. Logan	943
Unsymmetrical Buckling of Shallow Spherical Shells.....	N.-C. Huang	945
On Axially Symmetric, Turbulent, Compressible Mixing in the Presence of Initial Boundary Layer.....	G. Kleinstein	945
Minimizing Weight Penalty for VTOL Performance.....	B. Saelman	947
Axial-Symmetric Boundary Value Problem with Nonlinear Elasticity.....	M. Bieniek and W. R. Spillers	948
Electromagnetic Probe for the Measurement of Hypersonic Flow Velocity at a Point.....	P. L. Leath and T. Marshall	948
Conical Flairings in Uniform Supersonic Flow at Zero Angle of Attack.....	W. L. Chow	950
Matrix Analysis of a Nonuniform Beam Column on Multi-Supports.....	H. Saunders	951
Free Vibration of a Damped Semi-Elliptical Plate and a Quarter-Elliptical Plate.....	R. P. McNitt	952
Development of a Stable "White" Coating System.....	R. Tanzilli	953
Measure of Satellite Dispersion.....	E. D. Callender and J. B. Day	954
Rarefied Viscous Flow Near a Sharp Leading Edge.....	E. Bendor	956
Optimization of Stochastic Trajectories.....	L. J. Berman, G. E. Steinker, R. Krupp	958
Cross-Thermoelastic Phenomenon in Heterogeneous Aeolotropic Plates.....	Y. Stavsky	960
Simplification of the Shock-Tube Equation.....	J. G. Hall and A. L. Russo	962
Electromagnetic Torques Operating on Satellites Using Snap Reactor Power Systems.....	J. H. Bick	963
Large-Scale Gap Test: Comparison of Tetryl and Pentolite Donors.....	J. Toscano, I. Jaffe, G. Roberson	964
Calculation of Damped Linear Systems by Holzer's Method.....	B. A. Djodjo	966
Systematic Matrix Calculation of Similarity Numbers.....	V. J. Skoglund	967
Influence of Constant Disturbing Torques on the Motion of Gravity-Gradient Stabilized Satellites.....	T. B. Garber	968
Entropy Perturbations in One-Dimensional Magnetohydrodynamic Flow.....	R. M. Gundersen	969
Inversion Property of the Fundamental Matrix in Trajectory Perturbation Problems.....	A. L. Friedlander	971
Flow Field in Hypersonic Re-Entry.....	H. Weil	973
Interaction between Hypersonic Wake and Hypersonic Projectile.....	R. E. Slattery, W. G. Clay, R. R. Stevens	974
Invariant Components of Motion in Inverse-Square Force Fields.....	F. V. Pohle	975

COMMENTS

Errata.....	M. Morduchow and S. P. Reyle	976
Further Note on the Design of Two-Dimensional Contracting Channels.....	B. Szczeniowski	977
Comment on "A Second-Order Theory of Entry Mechanics into a Planetary Atmosphere".....	K. Wang	977
Author's Reply to Comment by Kenneth Wang.....	W. H. T. Loh	978
Comment on "Stability of Pressure Waves in a Combustion Field".....	W. C. Strahle and W. A. Sirignano	978
Reply by Author to W. C. Strahle and W. A. Sirignano.....	G. Rosen	978
Comments on "Free Vibration of a Damped Elliptical Plate".....	D. J. Johns	979