

AIAA Journal

TECHNICAL NOTES AND COMMENTS

NOTES

Gyroscope Unbalance Torques Resulting from Static Linear Compliances.....	J. Rossbach	1409
Energy Separation in Laminar Vortex-Type Slip Flow.....	R. M. Inman	1411
More on the Effectiveness Concept in Mass-Transfer Cooling.....	E. L. Knuth and H. Dershin	1412
Surface Mass-Transfer Correlations.....	A. N. Tifford	1414
Method of Characteristics and Velocity of Sound for Reacting Gases.....	F. E. Ehlers	1415
Surface Temperatures Due to Localized Removal of a High-Emittance Coating on the Thin-Plate Sections of a Re-Entry Vehicle.....	F. R. S. Dressler	1416
Double-Shock Shock Tube for Simulating Blast Loading in Supersonic Flow.....	B. Lemcke	1417
An Erroneous Concept Concerning Nonlinear Aerodynamic Damping.....	C. H. Murphy	1418
Results of Solid Rocket Motor Extinguishing Experiments.....	R. W. Slocum Jr.	1419
Matrix Derivation of a Short-Term Linear Rendezvous Equation.....	R. Leach	1420
Design of an Attitude Control System with Magnetometer Sensors.....	J. J. Rodden and L. D. Montague	1422
Turbulence Effects in Chemical Reaction Kinetics Measurements.....	I. Glassman and I. J. Eberstein	1424
Plane Jet in a Moving Medium.....	A. Pozzi and B. Sabatini	1426
Torsional Vibration of a Semi-Infinite Viscoelastic Circular Cylinder Due to Transient Torsional Couple.....	S. K. Sarkar	1427
Method of Evaluating Script F for Radiant Exchange within an Enclosure.....	T. Ishimoto and J. T. Bevans	1428
Motion of an Asymmetric Spinning Body with Internal Dissipation.....	W. T. Thomson and G. S. Reiter	1429
Flow Field of an Exhaust Plume Impinging on a Simulated Lunar Surface.....	D. W. Eastman and L. P. Radtke	1430
Techniques for the Derivation of Element Stiffness Matrices.....	R. H. Gallagher	1431
Supersonic Interference Lift.....	F. Mysliwetz	1432
Magnetic Induction Parameter for Lorentz Accelerators.....	H. Beckmann	1434
Earth Albedo Input to Flat Plates.....	F. G. Cunningham	1434
Real Gas Performance of Helium Drivers.....	D. J. Collins and T. L. Babineaux	1436
Discrete Element Approach to Structural Instability Analysis.....	R. H. Gallagher and J. Padlog	1437
Minimum Structural Mass for a Magnetic Radiation Shield.....	S. W. Kash	1439
Experimental Unsteady Airfoil Lift and Moment Coefficients for Low Values of Reduced Velocity.....	H. N. Abramson and G. E. Ransleben Jr.	1441
Turbulent Mixing of Compressible Free Jets.....	R. C. Maydew and J. F. Reed	1443
Successful Re-Entry of Space Fragments from a Decaying Earth Orbit.....	W. H. Gallaher and M. Sibulkin	1444
Regions of Libration for a Symmetrical Satellite.....	R. R. Auelmann	1445
Oscillations of a Fluid in a Rectilinear Conical Container.....	E. Levin	1447
The Accuracy of Linear Piston Theory When Applied to Cylindrical Shells.....	H. Krumhaar	1448
Transient Temperature of a Porous-Cooled Wall.....	A. R. Mendelsohn	1449
Large Thermal Deflection of a Cantilever Beam.....	P. E. Wilson	1451
Far-Field Approximation for a Nozzle Exhausting into a Vacuum.....	M. Sibulkin and W. H. Gallaher	1452
Secular Decrease in the Inclination of Artificial Satellites.....	R. C. Nigam	1454
Graphical Method for Optimization of Cesium-Surface Ionizer Materials.....	G. Kuskevics	1455
Axially Loaded Column Subjected to Lateral Pressure.....	J. P. Peterson	1458

COMMENTS

Solution of Large Numbers of Simultaneous Equations.....	C. E. Spruill	1459
Comment on the Use of Superposition for Plates under Combined Loading.....	W. J. Anderson	1459
Reply by Authors to William J. Anderson.....	M. Newman and M. Furray	1460
Comment on "Error Matrix for a Flight on a Circular Orbit".....	H. M. Dusek	1460
Reply to Comment by H. M. Dusek.....	M. L. Wisneski	1461
Response to Author's Reply.....	H. M. Dusek	1461
Comment on "Orbit Decay Characteristics Due to Drag".....	J.-M. Wu	1462
Author's Reply to Comment by Jain-Ming Wu.....	W. D. Parsons	1462
Comments on a Hanging Soap Film.....	F. E. C. Culick	1462
Comments on "The Adjoint Method and Its Application to Trajectory Optimization".....	R. R. Greenley	1463
Errata: Damping of a Gravitationally Oriented Two-Body Satellite.....	E. F. Zajac	1463