

# AIAA Journal

## TECHNICAL NOTES AND COMMENTS

### NOTES

|  |  |     |
|--|--|-----|
| Fabrication of Porous Tungsten Ionizers.....   | E. M. Gold                                 | 695 |
| Photoelastic Design Data for Stresses in Rocket Grains.....                              | M. E. Fourny and R. R. Parmeter            | 697 |
| A Simple MHD Flow with Hall Effect.....  | R. H. Levy                                 | 698 |
| Propagation of Thermal Disturbances in Rarefied Gas Flows.....                           | J. G. Logan                                | 699 |
| Isothermal Compressibilities of Monopropellants.....                                     | J. F. Kowalick                             | 700 |
| Compressibility Effects of Slender Bodies Entering Water.....                            | I. L. Ryhming                              | 702 |
| Lateral Range during Constant-Altitude Glide.....  | H. E. Wang and R. S. Skulsky               | 703 |
| Forces due to Magnetic Field of Electrical Conductivity Meter.....                       | A. E. Fuhs and R. Betchov                  | 704 |
| Trailing Vortex in a Favorable Pressure Gradient.....                                    | J. E. Gibbons and E. Mollo-Christensen     | 705 |
| Linearized Interaction Curves for Plastic Beams under Combined Bending and Twisting..... | L.-W. Lu                                   | 706 |
| Scaling of Jet Flameholders.....   | J. R. O'Loughlin                           | 707 |
| Lagrangian and Hamiltonian Rocket Mechanics.....   | V. Punga                                   | 709 |
| Magnetohydrodynamic Simple Waves in Monatomic Fluids.....                                | R. M. Gundersen                            | 711 |
| Beam Current Measuring Device for Ion Engine Research.....                               | S. Domitz and E. V. Pawlik                 | 712 |
| Effect of Radiation on Flow Properties behind Strong Shock Waves in Air.....             | N. H. Johannesen and H. Hoshizaki          | 713 |
| Instability of Arc Columns.....  | J. K. Harvey, P. G. Simpkins, B. D. Adcock | 714 |
| Blast-Wave Pressures on Blunt-Nosed Cylinders at Hypersonic Speeds.....                  | D. M. Kuehn                                | 716 |
| Direct Solution of the "Three-Moments Equation".....                                     | T. Wolff                                   | 718 |
| A Similar Solution of the Turbulent, Free-Convection, Boundary Layer Problem.....        | Y. Hopenfeld and R. R. Cole                | 718 |
| Hypersonic Wake Transition.....  | W. H. Webb, L. Hromas, L. Lees             | 719 |
| Solid Propellant Exhaust Simulation.....   | W. H. Jones                                | 721 |
| Thermoelastic Vibrations of Membranes and Inextensional Plates.....                      | Y. Stavsky                                 | 722 |

### COMMENTS

|  |  |     |
|--|--|-----|
| Comment on "Characteristics of the Arc".....                         | M. T. Dooley, W. K. McGregor, L. E. Brewer | 723 |
| Comments on "Treatment of Partial Equilibrium".....                  | R. E. Mates                                | 723 |
| Author's Reply to Comment by R. E. Mates.....                        | P. A. Libby                                | 724 |
| Errata: "Status of Unsteady Aerodynamic Influence Coefficients"..... | W. P. Rodden and J. D. Revell              | 724 |
| Comments on "Angle of Attack and Sideslip".....                      | F. O. Smetana                              | 725 |
| Blast-Hypersonic Flow Analogy.....                                   | J. Lukasiewicz                             | 725 |
| Comment on "Heat Transfer in Planetary Atmospheres".....             | R. M. Nerem                                | 725 |
| Corrections and Comments on "Aerodynamic Processes".....             | R. J. Vidal                                | 726 |
| Errata and Addendum: "A Second-Order Theory".....                    | W. H. T. Loh                               | 727 |
| Comments on "Calculation of Laminar Separation".....                 | N. Curle                                   | 728 |
| Authors' Reply to Comment by N. Curle.....                           | M. Morduchow and S. P. Reyle               | 729 |