

PROCEEDINGS OF  
THE INDIAN NATIONAL SCIENCE ACADEMY

No. 2

1977

Vol. 43

CONTENTS

|   | <i>Page</i> |
|---|-------------|
| CHEMISTRY   |             |
| Studies of Chemisorption of Hydrogen on Ceric Oxide <i>by</i> S. K. BHATTACHARYYA, F.N.A., V. SITAKARA RAO <i>and</i> K. S. DE .. .. .                      | 89          |
| Attenuation of Acoustic Waves through Reflections at the Plasma Neutral Gas Interfaces : Weakly Ionized Case <i>by</i> S. K. GHOSAL <i>and</i> S. N. SEN .. | 96          |
| Measurement of Blocked Air Pore Volume in Soils (Porous Media) <i>by</i> G. C. AGGARWAL <i>and</i> P. K. SHARMA .. .. .                                     | 105         |
| Bulk Properties of Alkali Hydride Crystals on the Molecular Behaviour <i>by</i> LACHHMAN DASS <i>and</i> C. M. KACHHAVA .. .. .                             | 110         |
| PHYSICS   |             |
| Theoretical Consideration of Slowing-Down Density of Neutrons in a Spherical Symmetry <i>by</i> B. S. MEHTA .. .. .   | 122         |
| Collineation and Motion in Relativistic Thermodynamics <i>by</i> R. S. MISHRA, F.N.A., <i>and</i> R. QUARAISHI .. .. .                                      | 129         |
| Study of the Internal Structure of a Planet in General Relativity <i>by</i> J. P. SHARMA .. .. .  | 133         |
| A Point Explosion in an Arbitrary Atmosphere with Radiative Heat Transfer <i>by</i> B. C. PANDEY <i>and</i> RAMESH KUMAR SINGH .. .. .                      | 143         |
| Resonance in the Restricted Problem of Three Bodies with Short-Periodic Perturbations <i>by</i> K. B. BHATNAGAR <i>and</i> BEENA GUPTA .. .. .              | 153         |
| Torsional Wave Propagation in a Finite Piezoelectric Cylindrical Shell <i>by</i> H. S. PAUL <i>and</i> K. VENKATESWARA SARMA .. .. .                        | 169         |