CONTENTS

The Physics of Elementary Particles and Fields
Cylindrically symmetric dust distribution
B B Paul

Electromagnetism, Optics, Acoustics, Heat Transfer, Classical Mechanics and Fluid Dynamics
Self-focusing of an ultra-intense short-pulse laser beam in a tunnel-ionized plasma
G P Gupta & V Abrol
Determination of phase-correction arising at the interface of base platen and slip gauge material in gauge- interferometry
Mrityunjay Karna
Ultrasonic studies in dilute solutions of water and nonelectrolytes
G Venkata Ramana, E Rajagopal, N Manohara Murthy

Condensed Matter: Structure, Mechanical and Thermal Properties
A theoretical study of self-diffusion, viscosity and Schmidt number of inert liquids and their temperature dependence
P Dashora, U Parnami, G Gupta & J Dashora
Optimization and deciding the geometry of W-cell: (i) Effect of diameter and (ii) effect of central height
S R Kshirsagar & Arvind M Bhide

Condensed Matter: Electronic Structure, Electrical, Magnetic and Optical Properties
Photon energy dependent irradiation effects in a Cu(I) containing silica glass:
The phenomenon and its applications
R Debnath
Electrical resistivity behaviour of reentrant amorphous Fe-Zn alloys
A Perumal, V Srinivas, V V Rao & R A Dunlap
Photophysics of exciplex emission of crystalline biphenyl doped by pyrene
S A Jadhav, S R Pujari & S R Patil
Deposition of cobalt sulphide thin films by successive ionic layer adsorption and reaction (SILAR) method and their characterization
S D Sartale & C D Lokhande
Structural and electrical characterization of polymeric electrolytes: PVA-NH4SCN system
S L Agrawal & P K Shukla
Effect of zinc and copper substitution of Ca-W hexaferrites
P S Sawad & D K Kulkarni

The corresponding author has been indicated by (*) mark in case of papers with more than one author.