

CONTENTS

Front Title	1231
Advisory Board and Editors	1233-1234
Front Contents	1235-1236
Rapid Communication	
A modified gravitational potential to study particles and fluids around a rotating black hole in the equatorial plane SANDIP K CHAKRABARTI AND SOUMEN MONDAL	1237-1241
Atomic & Molecular Physics	
Calculated energy levels, oscillator strengths and lifetimes in Mg-like argon VIKAS TAYAL, G P GUPTA AND A N TRIPATHI	1243-1251
Condensed Matter & Materials Physics	
The influence of titanium ions on dielectric, magnetic and optical properties of $\text{Li}_2\text{O-MO}$ (MgO , CaO , SrO , BaO)- B_2O_3 glass system R BALAJI RAO, G SAHAYA BASKARAN, D KRISHNA RAO, P YADAGIRI REDDY AND N VEERAAIAH	1253-1262
Electrical conduction in semiconducting PVC-PMMA thin film S H DESHMUKH, D K BURGHATE, V S DEOGAONKAR AND P T DESMUKH	1263-1267
Fabrication and characterization of CdSe thin film transistor (TFT) using Y_2O_3 gate insulator C J PANCHAL	1269-1273
Electrical properties of CdS dispersed ammonium alum composite solid electrolyte KAMAL DEVLAL, U C JOHRI, N SHRIVASTVA AND B BHATTACHARYA	1275-1278
Lattice specific heat and local density of states of $\text{Pd}_{0.95}\text{Ni}_{0.05}$ dilute alloy at low temperature P D SEMALTY AND KAPIL DEV	1279-1283
General & Interdisciplinary Physics	
Effect of dust particles on a layer of rotating ferromagnetic fluid heated and soluted from below saturating a porous medium SUNIL AND ANUPAMA SHARMA	1285-1292

Evaluation of natural radioactivity and radiological hazards in various granites of Tamilnadu

V RAMASAMY, V PONNUSAMY, V MEENAKSHISUNDARAM AND V GAJENDRAN 1293–1297

Optics & Spectroscopy

Studies of self-phase modulation under cw and picosecond laser pumping : white light continuum generation in water

RALLABANDI SAILAJA, V SREEJA AND PREM B BISHT 1299–1304

Plasma Physics

Surface origin of light effect in gases

S V SALVI AND SUSHAMA S PIMPALE 1305–1311

Notes

Depletion of ozone and its effect on night airglow intensity of Na 5893 Å at New Delhi (29°N, 77°E) and Halley Bay (76° S, 27° W)

P K JANA AND S C NANDI 1313–1317

Natural radioactivity measurement of brick samples of Cuddalore district, Tamilnadu

B RAJAMANNAN, G VIRUTHAGIRI, R RAVISANKAR, A KRISHNAN AND V MEENAKSHISUNDARAM 1319–1320

Comment

A new relation to estimate adiabatic compressibility of binary mixtures at different temperatures and concentrations

T P HUTCHINSON 1321

Reply to Comment

A new relation to estimate adiabatic compressibility of binary mixtures at different temperatures and concentrations

R G BINDU, IYPE LILLY, M LAILA, P G THOMAS PANICKER, I DOMINI AND S MOHANAN 1323

Forthcoming Publications 1325–1326

Notes for Contributors 1327–1330

Our Special Publications 1331–1332

Renewal Notice 1333

Renewal Order Form 1335