

CONTENTS

Front Title	3
Board of Editors	5-6
From Editor's Desk : An Announcement	7
Front Contents	9-10
Condensed Matter & Materials Physics	
Observations of dislocation behaviour on different crystallographic faces of solution-grown sodium sulphate single crystals by chemical etching S KARAN AND S P SEN GUPTA	11-17
Preparation of pure ZnO films having an almost one plane of growth H H AFIFY, S EL-HEFNAWI, A ELIWA, M ABDEL-NABY AND N M AHMED	19-23
Ab initio studies on band structure of CaTiO ₃ H SALEHI	25-29
Electrical conductivity and dielectric properties of KH ₂ PO ₄ crystals modified with KBr and NaBr R ANANDA KUMARI AND R CHANDRAMANI	31-35
Hydrothermal synthesis and characterization of cobalt (III) hydrated pyrophosphate crystals : 2(CoHP ₂ O ₇) M J MAHESH, G S GOPALAKRISHNA, K G ASHAMANJARI AND J SHASHIDHARA PRASAD	37-40
Effect of Mn ⁴⁺ substitution on magnetic behaviour of cobalt ferrite K P THUMMER, M C CHHANTBAR, K B MODI AND H H JOSHI	41-45
Relationship between isothermal bulk modulus and volume expansion ratio for ionic solids S K SRIVASTAVA	47-50
Ce ³⁺ and Tb ³⁺ emission in CaS phosphors VIJAY SINGH AND MANOJ TIWARI	51-53

Nuclear Physics

Particular solution of DGLAP evolution equation in next-to leading order and x -distributions
of deuteron structure functions at low x

R RAJHOWA AND J K SARMA 55–64

Notes

Thermoluminescence studies of CaS phosphors activated by Ce^{3+} , Na^+ and Ag^+

MANOJ TIWARI, VIJAY SINGH, S J DHOBLE AND R N DUBEY 65–68

Frustrated magnetic moments in small metal clusters

MANICKAM MAHENDRAN 69–71

X-ray structural analysis of 1H, 4H-terahydroquinolizino-(9, 9a, 1gh) coumarin

RAJNIKANT, DINESH, MOUSMI, BABU VARGHESE AND BANDHAN SHARMA 73–75

XRD, thermal and FTIR studies on gel-grown gypsum crystals

E RAMACHANDRAN AND S NATARAJAN 77–80

Some properties of BSCCO-Ag added high temperature superconductors

B N DOLE AND S S SHAH 81–84

Growth and characterization of NbSe_2 single crystals

RAJIV VAIDYA, MEHUL DAVE, S G PATEL AND A R JANI 85–87

A local potential with analytical distorted wave approximation model for elastic
scattering of pions from a nucleus

REZA SAFARI 89–92

Forthcoming Publications 93–94

Notes for Contributors 95–97

Our Special Publications 99–100

Announcements 101–104