

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 55, NUMBER 1

1 JANUARY 1997-I

Mean-field analysis of antiferromagnetic three-state Potts model with next-nearest-neighbor interaction	48
M. Itakura	
Low-temperature asymptotics of isotropic ferromagnetic chains at nonzero fields	52
N. Theodorakopoulos and N. C. Bacalis	
Intermediate-coupling theory for the spectral weight of a spin polaron	56
Min-Fong Yang	
Correlation effects of ferromagnetism	59
Hui-Quan Nie and Wei-Ying Zhou	
Charge delocalization and structural response in layered $\text{La}_{1.2}\text{Sr}_{1.8}\text{Mn}_2\text{O}_7$: Enhanced distortion in the metallic regime	63
J. F. Mitchell, D. N. Argyriou, J. D. Jorgensen, D. G. Hinks, C. D. Potter, and S. D. Bader	
Magnetic properties of Fe embedded in V and Cr: Thin films and dilute alloys	67
S. Mirbt, I. A. Abrikosov, B. Johansson, and H. L. Skriver	
Critical fields of $\text{Fe}_4\text{N}/\text{NbN}$ ferromagnetic/superconducting multilayers	70
J. E. Mattson, C. D. Potter, M. J. Conover, C. H. Sowers, and S. D. Bader	
NMR investigation of a structural phase transition and temperature-induced magnetism in copper thiospinel CuV_2S_4	74
Y. Yoshikawa, S. Wada, K. Miyatani, T. Tanaka, and M. Miyamoto	

Superfluidity and superconductivity

Current-induced chiral phase transition in a Josephson-junction array	78
M. V. Simkin	
Critical-current diffraction pattern of annular Josephson junctions	82
Ciro Nappi	
Thermally assisted flux flow and melting transition for Mo/Si multilayers	85
Nina Ya. Fogel, Victoria G. Cherkasova, Olga A. Koretzkaya, and Anatoly S. Sidorenko	
Superionic behavior of high-temperature superconductors	89
A. Rakitin, M. Kobayashi, and A. P. Litvinchuk	
Transitions at $T > T_c$ in underdoped crystals of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ observed by resonant Raman scattering	93
G. Ruani and P. Ricci	
Screened Raman response in two-dimensional $d_{x^2-y^2}$ -wave superconductors: Relative intensities in different symmetry channels	97
Fabian Wenger and Mikael Käll	

ARTICLES

Structure, structural phase transitions, mechanical properties, defects, etc.

Refinement of the P - T phase diagram of barium	101
Markus Winzenick and Wilfried B. Holzapfel	
Generalized Laue dynamical theory for x-ray reflectivity at low and high incidence angles on ideal crystals of finite size	105
Liberato De Caro and Leander Tapfer	
Influence of plastic deformation on the martensitic phase transformation in lithium	113
Ch. Maier, O. Blaschko, and W. Pichl	
Connection between the true vibrational density of states and that derived from inelastic neutron scattering	117
S. N. Taraskin and S. R. Elliott	
Evidence for sp^3 carbon atoms in the RbC_{60} dimer phase	124
K.-F. Thier, M. Mehring, and F. Rachdi	

(Continued)