

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 54, NUMBER 5

1 AUGUST 1996-I

Series expansion for the J_1 - J_2 Heisenberg antiferromagnet on a square lattice	3022
J. Oitmaa and Zheng Weihong	
Tensile stress dependence of the Curie temperature and hyperfine field in Fe-Zr-B-(Cu) amorphous alloys	3026
J. M. Barandiarán, P. Gorria, I. Orúe, M. L. Fdez-Gubieda, F. Plazaola, and A. Hernando	
Structural, magnetic, and electronic properties of Fe/Au monatomic multilayers	3030
Zhu-Pei Shi, John F. Cooke, Zhenyu Zhang, and Barry M. Klein	
Giant magnetoresistance in Cu-Mn-Al	3033
L. Yiping, A. Murthy, G. C. Hadjipanayis, and H. Wan	
NMR studies of Na atoms in silicon clathrate compounds	3037
Jan Gryko, Paul F. McMillan, and Otto F. Sankey	

Superfluidity and superconductivity

Renormalization-group approach to Fermi-liquid theory	3040
N. Dupuis and G. Y. Chitov	
Relaxation of charge imbalance in a <i>d</i> -wave superconductor	3044
C. H. Choi	
Radiation linewidth of a long Josephson junction in the flux-flow regime	3047
A. A. Golubov, B. A. Malomed, and A. V. Ustinov	
First-order vortex unbinding transition in thin superconducting films	3051
D. Yu. Irz, V. N. Ryzhov, and E. E. Tareyeva	
Conspicuous domination of polarization relaxation in kinetics of first-order phase transitions in perovskites	3055
Alex Gordon, Simon Dorfman, and David Fuks	
Superconductivity in a strongly correlated one-band system	3058
T. Domański, K. I. Wysokiński, and R. Ramakumar	
Thermal conductivity of RNi_2B_2C ($R=Y, Ho$) single crystals	3062
M. Sera, S. Kobayash, M. Hiroi, N. Kobayashi, H. Takeya, and K. Kadowaki	
Effect of pressure on spin-gap behavior in Pr-doped and oxygen-deficient $YBa_2Cu_3O_7$ thin films	3066
I. François, J. Genoe, and G. Borghs	
Spin-gap behavior in underdoped $TlSr_2(Lu_{0.7}Ca_{0.3})Cu_2O_y$: ^{63}Cu and ^{205}Tl NMR studies	3070
K. Magishi, Y. Kitaoka, G.-q. Zheng, K. Asayama, T. Kondo, Y. Shimakawa, T. Manako, and Y. Kubo	

ARTICLES

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

First-principles determination of the effects of boron and sulfur on the ideal cleavage fracture in Ni_3Al	3074
Sheng N. Sun, Nicholas Kioussis, and Mikael Ciftan	
Hydrogen-induced lattice expansion in a (001)-oriented Mo/V superlattice	3079
F. Stillesjö, B. Hjörvarsson, and H. Zabel	
Positron studies of defects in ion-implanted SiC	3084
G. Brauer, W. Anwand, P. G. Coleman, A. P. Knights, F. Plazaola, Y. Pacaud, W. Skorupa, J. Störmer, and P. Willutzki	
Thermal conductivity of C_{60} at pressures up to 1 GPa and temperatures in the 50–300 K range	3093
O. Andersson, A. Soldatov, and B. Sundqvist	
Evaluation of time-dependent grain-size populations for nucleation and growth kinetics	3101
D. Crespo and T. Pradell	
Time dependence of dislocation arrays in ice during recrystallization	3110
J. van der Elsken, W. Bras, J. Dings, and J. C. F. Michielsen	

(Continued)