

CONTENTS - Continued

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 53, NUMBER 11

15 MARCH 1996-I

Structures of atomic steps on the 7×7 reconstructed Si(111) surface	6915
Yafei Wang and Tien T. Tsong	
Impurity band and magnetic-field-induced metal-insulator transition in a doped GaAs/ $\text{Al}_x\text{Ga}_{1-x}\text{As}$ superlattice	6919
W. Hilber, M. Helm, F. M. Peeters, K. Alavi, and R. N. Pathak	
Phonon strain-shift coefficients of $\text{Si}_{1-x}\text{Ge}_x$ grown on Ge(001)	6923
M. Stoehr, D. Aubel, S. Juillaguet, J. L. Bischoff, L. Kubler, D. Bolmont, F. Hamdani, B. Fraisse, and R. Fourcade	
Reconstructions on the Si(113) surface	6927
H. Sakama, D. Kunitatsu, M. Kageshima, and A. Kawazu	
Quantum limits on classical permanent memories	6931
C. A. R. Sá de Melo	
Direct determination of exact charge states of surface point defects using scanning tunneling microscopy: As vacancies on GaAs (110)	6935
Kuo-Jen Chao, Arthur R. Smith, and Chih-Kang Shih	
Tight-binding study of optical properties in short-period $\text{In}_{0.53}\text{Ga}_{0.47}\text{As}/\text{InP}$ superlattices	6939
V. Sankaran, K. W. Kim, and G. J. Iafrate	
Electronic-transport properties of parallel double-ring systems	6943
Youyan Liu, Honglin Wang, Zhao-Qing Zhang, and Xiujun Fu	
Landau quantization and the Aharonov-Bohm effect in a two-dimensional ring	6947
W.-C. Tan and J. C. Inkson	
Nonlinear piezoelectricity: The effect of pressure on CdTe	6951
R. André, J. Cibert, Le Si Dang, J. Zeman, and M. Zigone	
Theory of phonon replicas in superlattice photoluminescence excitation spectra	6955
A. N. Forshaw and D. M. Whittaker	
Magneto-optical determination of exciton binding energies in quantum-wire superlattices	6959
H. Weman, M. Potemski, M. E. Lazzouni, M. S. Miller, and J. L. Merz	
Magneto-optics in a square-well quantum dot	6963
Ryuichi Ugajin	
Dimensional effects in photoelectron spectra of Ag deposits on GaAs(110) surfaces	6967
V. Gasparian, E. Louis, and J. A. Vergés	
Effects of scattering centers on the energy spectrum of a quantum dot	6971
V. Halonen, P. Hyvönen, P. Pietiläinen, and Tapash Chakraborty	
Diffusion of electrons in two-dimensional disordered symplectic systems	6975
Tohru Kawarabayashi and Tomi Ohtsuki	
Quantum breathing mode for electrons with $1/r^2$ interaction	6979
Michael R. Geller and Giovanni Vignale	
Skyrmion liquid in SU(2)-invariant quantum Hall systems	6981
A. G. Green, I. I. Kogan, and A. M. Tsvelik	
Gap shift and bistability in two-dimensional nonlinear optical superlattices	6984
Zhen-Lin Wang, Yong-Yuan Zhu, Zhen-Ju Yang, and Nai-Ben Ming	
Quantitative theory of third-harmonic generation in an $(\text{InAs})_{0.7}(\text{GaSb})_{0.3}/(\text{AlSb})$ superlattice	6988
S. A. Hosseini, M. J. Shaw, and M. Jaros	
Different quantum behavior of the E_1 and E_2 spectral structures in Ge nanocrystals	6992
P. Tognini, L. C. Andreani, M. Geddo, A. Stella, P. Cheyssac, R. Kofman, and A. Migliori	
Surface physics, low-dimensional systems, and related topics	
Electron stimulated desorption of negative and positive hydrogen ions from hydrogenated silicon surfaces	6996
A. Hoffman and M. Petrávič	
Structure model for the type-C defect on the Si(001) surface	6999
Tsuyoshi Uda and Kiyoyuki Terakura	

(Continued)