

PHYSICAL REVIEW B

RAPID COMMUNICATIONS

For editorial and subscription correspondence,
please see inside front cover
(ISSN: 1082-586X)

BRC 55 04

CONTENTS

15 FEBRUARY 1997

Reprinted from Physical Review B Condensed Matter, Volume 55, Third Series, Number 8

Electronic structure: wide-band, narrow-band, and strongly correlated systems

- Elimination of Coulomb finite-size effects in quantum many-body simulations R4851
A. J. Williamson, G. Rajagopal, R. J. Needs, L. M. Fraser, W. M. C. Foulkes, Y. Wang, and M.-Y. Chou
- Integer-filling metal-insulator transitions in the degenerate Hubbard model R4855
Marcelo J. Rozenberg
- Spectral functions of one-dimensional models of correlated electrons R4859
Julien Favand, Stephan Haas, Karlo Penc, Frédéric Mila, and Elbio Dagotto

Semiconductors I: bulk

- Infrared spectroscopic study of phonons coupled to charge excitations in FeSi R4863
A. Damascelli, K. Schulte, D. van der Marel, and A. A. Menovsky

Semiconductors II: surfaces, interfaces, microstructures, and related topics

- Resonant photoluminescence of semiconductor microcavities: The role of acoustic phonons
in polariton relaxation R4867
R. P. Stanley, S. Pau, U. Oesterle, R. Houdré, and M. Ilegems
- Magneto-optical studies of a single quantum dot: Excited states and spin flip of excitons R4871
W. Heller and U. Bockelmann
- Conductance quantization at room temperature in magnetic and nonmagnetic metallic nanowires R4875
J. L. Costa-Krämer
- Numerical simulation of shell-filling effects in circular quantum dots R4879
M. Macucci, Karl Hess, and G. J. Iafrate
- Dynamics of nonlinear optical properties in $\text{In}_x\text{Ga}_{1-x}\text{As}/\text{InP}$ quantum-well waveguides R4883
C. Cacciatore, L. Faustini, G. Leo, C. Coriasso, D. Campi, A. Stano, and C. Rigo
- Dependence of the energy and form of the optical-absorption onset of interface diffusion in Si_nGe_m
superlattices R4887
I. A. Papadogonas, A. N. Andriotis, and E. N. Economou
- Bulk quantum Hall effect: Evidence that surface states play a key role R4891
S. Hill, P. S. Sandhu, J. S. Qualls, J. S. Brooks, M. Tokumoto, N. Kinoshita, T. Kinoshita, and Y. Tanaka
- Quantitative study of large composite-fermion systems R4895
J. K. Jain and R. K. Kamilla
- Spectromicroscopic evidence of Ge-GaSe chemical reactions: Not a Schottky system R4899
J. Almeida, I. Vobornik, H. Berger, M. Kiskinova, A. Kolmakov, M. Marsi, and G. Margaritondo
- Exact dynamical response of an N -electron quantum dot subject to a time-dependent potential R4903
Simon C. Benjamin and Neil F. Johnson
- Multiphoton photoluminescence from GaN with tunable picosecond pulses R4907
Doseok Kim, I. H. Libon, C. Voelkmann, Y. R. Shen, and V. Petrova-Koch
- Emission dynamics of a magnetoexciton quantum-dot microcavity laser R4910
J. D. Berger, S. Hallstein, O. Lyngnes, W. W. Rühle, G. Khitrova, and H. M. Gibbs

(Continued)

CONTENTS - *Continued*

Surface physics, low-dimensional systems, and related topics

Structural changes induced upon charging Ge clusters	R4914
Serdar Ögüt and James R. Chelikowsky	
Grain-size effect on elastic properties of C ₆₀ films and their relationship to the order-disorder phase transition	R4918
F. Yan, Y. N. Wang, and M. Gu	
Metallic resistivity in crystalline ropes of single-wall carbon nanotubes	R4921
J. E. Fischer, H. Dai, A. Thess, R. Lee, N. M. Hanjani, D. L. Dehaas, and R. E. Smalley	
Breaking of time-reversal symmetry probed by optical second-harmonic generation	R4925
R. Stolle, K. J. Veenstra, F. Manders, Th. Rasing, H. van den Berg, and N. Persat	