PHYSICAL REVIEW B THIRD SERIES, VOLUME 58, NUMBER 23 15 DECEMBER 1998-I

Second-order susceptibility from a tight-binding Hamiltonian 15 340
T. Dumitrică, J. S. Graves, and R. E. Allen
Model for energy transfer from porous silicon nanocrystallites to SiH surface vibrations at low temperature 15 344
S. Létant and G. Fishman

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

Domain boundaries on $\{11\bar{2}0\}$ planes in GaN: A theoretical study 15 347
J. Elsner, M. Kaukonen, M. I. Heggie, M. Haugk, Th. Frauenheim, and R. Jones
Local strain in interface: Origin of grain tilting in diamond (001)/silicon (001) heteroepitaxy 15 351
X. Jiang, R. Q. Zhang, G. Yu, and S. T. Lee
X-ray diffraction and excitation photoluminescence analysis of ordered GaInP 15 355
R. L. Forrest, T. D. Golding, S. C. Moss, Z. Zhang, J. F. Geisz, J. M. Olson, A. Mascarenhas, P. Ernst, and C. Geng
Smooth growth fronts in Si/Ge heteroepitaxy by kinetic growth manipulation 15 359
Wulf Wulfhekel, Harold J. W. Zandvliet, Bart-Jan Hattink, Georg Rosenfeld, George Comsa, and Bene Poelsema
Scaling relations for gaps in fractional quantum Hall states 15 363
Ganpathy Murthy, K. Park, R. Shankar, and J. K. Jain
Polariton-induced optical asymmetry in semiconductor microcavities 15 367
A. Armitage, M. S. Skolnick, A. V. Kavokin, D. M. Whittaker, V. N. Astratov, G. A. Gehring, and J. S. Roberts
Shot noise in diffusive conductors: A quantitative analysis of electron-phonon interaction effects 15 371
Y. Naveh, D. V. Averin, and K. K. Likharev
Spin splitting in the electron subband of asymmetric GaAs/Al_xGa_{1-x}As quantum wells: The multiband envelope function approach 15 375
L. Wissinger, U. Rössler, R. Winkler, B. Jusserand, and D. Richards
Interface-induced suppression of the Auger recombination in type-II InAs/GaSb superlattices 15 378
H. Mohseni, V. I. Litvinov, and M. Razeghi
Electronic states of V-shaped semiconductor quantum wires in electric fields 15 381
Hong Sun
Photoluminescence from a modulation-doped $Al_{0.33}Ga_{0.67}As$/GaAs heterointerface under cyclotron resonance 15 385
K. Suzuki, K. Saito, K. Muraki, and Y. Hirayama
Dynamic confinement of electrons in time-dependent quantum structures 15 389
Chang Sub Kim and Arkady M. Satanin
Self-consistent analysis of a quantum capacitor 15 393
Pawel Pomorski, Hong Guo, R. Harris, and Jian Wang
Spin-dependent electronic tunneling at zero magnetic field 15 397
A. Voskoboynikov, Shiue Shin Liu, and C. P. Lee
Universality in the crossover between edge-channel and bulk transport in the quantum Hall regime 15 401
J. Oswald, G. Span, and F. Kuchar
Raman spectroscopy of PbS nanocrystalline semiconductors 15 405
K. K. Nanda, S. N. Sahu, R. K. Soni, and S. Tripathy
Charged excitons trapped on monomolecular CdTe islands in wide ZnTe-(Zn,Mg)Te quantum wells 15 408
Thierry Taliercio, Pierre Lefebvre, Vincent Calvo, Denis Scalbert, Noël Magnea, Henry Mathieu, and Jacques Allègre

Surface physics, low-dimensional systems, and related topics

Structure and stability of finite gold nanowires 15 412
G. Bilalbegović

(Continued)