PHYSICAL REVIEW B

For editorial and subscription correspondence,
please see inside front cover
(ISSN: 0163-1829)

PERIODICALS
Postmaster send address changes to:
American Institute of Physics
Suite 1NO1
2 Huntington Quadrangle
Melville, NY 11747-4502

THIRD SERIES, VOLUME 69, NUMBER 14 *CONTENTS* **APRIL 2004-1(II)**

RAPID COMMUNICATIONS

Dynamics, dynamical systems, lattice effects, quantum solids, etc.

Temporal measurement of hot-electron relaxation in a phonon-cooled metal island *(4 pages)* . . . . . 140301(R)
D. R. Schmidt, C. S. Yung, and A. N. Cleland

Magnetism

Chirality reversal of the interface domain wall in a hard/soft magnetic bilayer *(4 pages)* . . . . . 140401(R)
Y. Henry, S. Mangin, and F. Montaigne

Domain-wall scattering in an interacting one-dimensional electron gas *(4 pages)* . . . . . 140402(R)
R. G. Pereira and E. Miranda

Pressure-induced insulating state in $(La,Sr)CoO_3$ *(4 pages)* . . . . . 140403(R)
R. Lengsdorf, M. Ait-Tahar, S. S. Saxena, M. Ellerby, D. I. Khomskii, H. Micklitz, T. Lorenz, and M. M. Abd-Elmeguid

Magnetostriction in Fe-based alloys and the origin of the Invar anomaly *(4 pages)* . . . . . 140404(R)
S. Khmelevskyi and P. Mohn

Origin of magnetic interactions in $Ca_3Co_2O_6$ *(4 pages)* . . . . . 140405(R)
Raymond Frésard, Christian Laschinger, Thilo Kopp, and Volker Eyert

Anisotropic lattice expansion and magnetism in sputter-deposited $Ca(La)B_6$ films *(4 pages)* . . . . . 140406(R)
Y. Sakuraba, H. Kato, F. Sato, and T. Miyazaki

Spin-flip noise in a multiterminal spin valve *(4 pages)* . . . . . 140407(R)
W. Belzig and M. Zareyan

Magnetic structure and electric-field gradients of uranium dioxide: An *ab initio* study *(4 pages)* . . . . . 140408(R)
Robert Laskowski, Georg K. H. Madsen, Peter Blaha, and Karlheinz Schwarz

Transport and thermodynamic properties of $Sr_3Ru_2O_7$ near the quantum critical point *(4 pages)* . . . . . 140409(R)
Z. X. Zhou, S. McCall, C. S. Alexander, J. E. Crow, P. Schlottmann, A. Bianchi, C. Capan, R. Movshovich, K. H. Kim, M. Jaime, N. Harrison, M. K. Haas, R. J. Cava, and G. Cao

Superfluidity and superconductivity

Antiferromagnetic domain walls in lightly doped layered cuprates *(4 pages)* . . . . . 140501(R)
Baruch Horovitz

Determining the current polarization in Al/Co nanostructured point contacts *(4 pages)* . . . . . 140502(R)
F. Pérez-Willard, J. C. Cuevas, C. Sürgers, P. Pfundstein, J. Kopu, M. Eschrig, and H. v. Löhneysen

Coherent dynamics of a Josephson charge qubit *(4 pages)* . . . . . 140503(R)
T. Duty, D. Gunnarsson, K. Bladh, and P. Delsing

Experimental test of the self-organized criticality of vortices in superconductors *(4 pages)* . . . . . 140504(R)
V. K. Vlasko-Vlasov, U. Welp, V. Metlushko, and G. W. Crabtree

World Year of PHYSICS 2005
www.physics2005.org

Copyright 2004 by The American Physical Society

0163-1829(20040401)69:14;1-U

(Continued)

PHYSICAL REVIEW B **THIRD SERIES, VOLUME 69, NUMBER 14** **APRIL 2004-1(II)**

Special photon energies for extracting the bosonic spectral function mediating superconductivity in $Bi_2Sr_2CaCu_2O_8$ via angle-resolved photoemission spectroscopy *(4 pages)* . . . . . 140505(R)
M. Lindroos, R. S. Markiewicz, and A. Bansil

Angle-resolved photoemission study of the quasi-one-dimensional superconductor β-$Na_{0.33}V_2O_5$ *(4 pages)* . . . 140506(R)
K. Okazaki, A. Fujimori, T. Yamauchi, and Y. Ueda

Doping dependence of many-body effects along the nodal direction in the high-T_c cuprate $(Bi,Pb)_2Sr_2CaCu_2O_8$ *(4 pages)* . . . . . 140507(R)
A. Koitzsch, S. V. Borisenko, A. A. Kordyuk, T. K. Kim, M. Knupfer, J. Fink, H. Berger, and R. Follath

ARTICLES

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

Dynamical excitation and anelastic relaxation of ferroelastic domain walls in $LaAlO_3$ *(10 pages)* 144101
Richard J. Harrison, Simon A. T. Redfern, and Ekhard K. H. Salje

Tracking and understanding the first-order structural transition in Er_5Si_4 *(13 pages)* 144102
Y. Mozharivskyj, A. O. Pecharsky, V. K. Pecharsky, G. J. Miller, and K. A. Gschneidner, Jr.

HRTEM and EELS study of screw dislocation cores in $SrTiO_3$ *(7 pages)* 144103
Zaoli Zhang, Wilfried Sigle, and Wolfgang Kurtz

Broad-band dielectric spectroscopy of $SrTiO_3$:Bi ceramics *(10 pages)* 144104
V. Porokhonskyy, A. Pashkin, V. Bovtun, J. Petzelt, M. Savinov, P. Samoukhina, T. Ostapchuk, J. Pokorný, M. Avdeev, A. Kholkin, and P. Vilarinho

Synchrotron x-ray diffraction and Raman scattering investigations of $(Li_xNa_{1-x})NbO_3$ solid solutions: Evidence of the rhombohedral phase *(7 pages)* 144105
Yu. I. Yuzyuk, E. Gagarina, P. Simon, L. A. Reznitchenko, L. Hennet, and D. Thiaudière

Raman spectrum of cubic boron nitride at high pressure and temperature *(7 pages)* 144106
Frédéric Datchi and Bernard Canny

Raman spectroscopy and x-ray diffraction of phase transitions in Cr_2O_3 to 61 GPa *(12 pages)* 144107
Sang-Heon Shim, Thomas S. Duffy, Raymond Jeanloz, Choong-Shik Yoo, and Valentin Iota

Polymorphism of Ti_3SiC_2 ceramic: First-principles investigations *(13 pages)* 144108
Jing-Yang Wang and Yan-Chun Zhou

Hydrogen in aluminum: First-principles calculations of structure and thermodynamics *(16 pages)* 144109
C. Wolverton, V. Ozoliņš, and M. Asta

Ultrasonic evidence for hydrogen tunneling in a Laves-phase material: $TaV_2H(D)_x$ *(6 pages)* 144110
J. E. Atteberry, R. G. Leisure, A. V. Skripov, J. B. Betts, and A. Migliori

Effects of composition of $PbTiO_3$ on optical properties of $(1-x)PbMg_{1/3}Nb_{2/3}O_3$-$xPbTiO_3$ thin films *(5 pages)* 144111
K. Y. Chan, W. S. Tsang, C. L. Mak, K. H. Wong, and P. M. Hui

Ab initio study of foreign interstitial atom (C, N) interactions with intrinsic point defects in α-Fe *(16 pages)* 144112
C. Domain, C. S. Becquart, and J. Foct

Misfit-energy-increasing dislocations in vapor-deposited CoFe/NiFe multilayers *(10 pages)* 144113
X. W. Zhou, R. A. Johnson, and H. N. G. Wadley

Structural, electronic, and dynamical properties of calaverite $AuTe_2$ under pressure *(7 pages)* 144114
Razvan Caracas and Xavier Gonze

Neutron diffraction study of the nuclear and magnetic structure of the quasi-one-dimensional compound $CuSiO_3$ around $T_N = 8$ K *(12 pages)* 144115
H. Wolfram, H. H. Otto, M. Cwik, M. Braden, G. André, F. Bourée, M. Baenitz, and F. Steglich

(Continued)

PHYSICAL REVIEW B **THIRD SERIES, VOLUME 69, NUMBER 14** **APRIL 2004-1(II)**

Dipole moment of a Pb-O vacancy pair in $PbTiO_3$ *(5 pages)* 144116
Eric Cockayne and Benjamin P. Burton
Simulations of shear-induced melting in two dimensions *(7 pages)* 144117
Jerome Delhommelle
Oxide chemistry and local structure of $PbZr_xTi_{1-x}O_3$ studied by density-functional theory supercell calculations *(17 pages)* 144118
Ilya Grinberg, Valentino R. Cooper, and Andrew M. Rappe
Synthesis of nanoparticles with femtosecond laser pulses *(6 pages)* 144119
S. Eliezer, N. Eliaz, E. Grossman, D. Fisher, I. Gouzman, Z. Henis, S. Pecker, Y. Horovitz, M. Fraenkel, S. Maman, and Y. Lereah
Model of the erbium ion exchange process in lithium niobate crystals *(12 pages)* 144120
C. Sada, N. Argiolas, M. Bazzan, and P. Mazzoldi
Solid-liquid equilibria in nanoparticles of Pb-Bi alloys *(13 pages)* 144121
W. A. Jesser, R. Z. Shneck, and W. W. Gile
Empirical variable-charge models for titanium oxides: A study in transferability *(8 pages)* 144122
B. S. Thomas, N. A. Marks, and B. D. Begg

Inhomogeneous, disordered, and partially ordered systems

Thermal properties of close-packed Fe up to 400 GPa determined using Hugoniot functions *(8 pages)* 144201
Yukio Sano and Tomokazu Sano
Simulation of physical properties of the chalcogenide glass As_2S_3 using a density-functional-based tight-binding method *(11 pages)* 144202
S. I. Simdyankin, S. R. Elliott, Z. Hajnal, T. A. Niehaus, and Th. Frauenheim
Critical behavior and driven Monte Carlo dynamics of the *XY* spin glass in the phase representation *(4 pages)* 144203
Enzo Granato
In situ study of the annealing behavior of porosity in icosahedral Al-Pd-Mn quasicrystals using third generation x-ray synchrotron radiation imaging *(9 pages)* 144204
S. Agliozzo, J. Gastaldi, H. Klein, J. Härtwig, J. Baruchel, and E. Brunello
Simulation of Cu-Mg metallic glass: Thermodynamics and structure *(11 pages)* 144205
Nicholas P. Bailey, Jakob Schiøtz, and Karsten W. Jacobsen
Temperature dependence of the medium-range structural order in glassy and supercooled selenium: An experimental investigation *(7 pages)* 144206
S. N. Yannopoulos and K. S. Andrikopoulos
Molecular dynamics study of the mechanism of ion transport in lithium silicate glasses: Characteristics of the potential energy surface and structures *(8 pages)* 144207
Junko Habasaki and Yasuaki Hiwatari
Harris-Luck criterion for random lattices *(12 pages)* 144208
Wolfhard Janke and Martin Weigel
Principal Hugoniot, reverberating wave, and mechanical reshock measurements of liquid deuterium to 400 GPa using plate impact techniques *(20 pages)* 144209
M. D. Knudson, D. L. Hanson, J. E. Bailey, C. A. Hall, J. R. Asay, and C. Deeney

Dynamics, dynamical systems, lattice effects, quantum solids, etc.

Vibrational modes in nanocrystalline iron under high pressure *(5 pages)* 144301
Alexander B. Papandrew, Alan F. Yue, Brent Fultz, Itzhak Halevy, Wolfgang Sturhahn, Thomas S. Toellner, E. Ercan Alp, and Ho-kwang Mao

(Continued)

PHYSICAL REVIEW B **THIRD SERIES, VOLUME 69, NUMBER 14** **APRIL 2004-1(II)**

Nonlocal electron-phonon coupling: Consequences for the nature of polaron states *(13 pages)* 144302
Vladimir M. Stojanović, P. A. Bobbert, and M. A. J. Michels

Magnetism

Impact of cation size on magnetic properties of $(AA')_2FeReO_6$ double perovskites *(10 pages)* 144401
J. M. De Teresa, D. Serrate, J. Blasco, M. R. Ibarra, and L. Morellon
Structure and magnetism of single-phase epitaxial γ'-Fe_4N *(8 pages)* 144402
J. L. Costa-Krämer, D. M. Borsa, J. M. García-Martín, M. S. Martín-González, D. O. Boerma, and F. Briones
Pd polarization and interfacial moments in Pd-Fe multilayers *(5 pages)* 144403
L. Cheng, Z. Altounian, D. H. Ryan, J. O. Ström-Olsen, M. Sutton, and Z. Tun
Comparison of $S=0$ and $S=\frac{1}{2}$ impurities in the Haldane chain compound Y_2BaNiO_5 *(13 pages)* 144404
J. Das, A. V. Mahajan, J. Bobroff, H. Alloul, F. Alet, and E. S. Sørensen
Phase diagram and symmetry breaking of an SU(4) spin-orbital chain in a generalized external field *(8 pages)* 144405
Shi-Jian Gu, You-Quan Li, and Huan-Qiang Zhou
Electric, magnetic, and calorimetric properties and phase diagram of $Pr_{1-x}Ca_xCoO_3$ $(0\leqslant x\leqslant 0.55)$ *(7 pages)* 144406
Shingo Tsubouchi, Tôru Kyômen, Mitsuru Itoh, and Masaharu Oguni
Magnetic polaron conduction in the colossal magnetoresistance material $Fe_{1-x}Cd_xCr_2S_4$ *(6 pages)* 144407
Zhaorong Yang, Xinyu Bao, Shun Tan, and Yuheng Zhang
In situ Brillouin scattering study of the thickness dependence of magnetic anisotropy in uncovered and Cu-covered Fe/GaAs(100) ultrathin films *(7 pages)* 144408
M. Madami, S. Tacchi, G. Carlotti, G. Gubbiotti, and R. L. Stamps
Anomalous magnetotransport in $(Y_{1-x}Gd_x)Co_2$ alloys: Interplay of disorder and itinerant metamagnetism *(6 pages)* 144409
A. T. Burkov, A. Yu. Zyuzin, T. Nakama, and K. Yagasaki
Low-energy excitations and dynamic Dzyaloshinskii-Moriya interaction in α'-NaV_2O_5 studied by far-infrared spectroscopy *(19 pages)* 144410
T. Rõõm, D. Hüvonen, U. Nagel, Y.-J. Wang, and R. K. Kremer
Magnetic structure and fluctuations of Gd_2IrIn_8: A resonant x-ray diffraction study *(5 pages)* 144411
E. Granado, P. G. Pagliuso, C. Giles, R. Lora-Serrano, F. Yokaichiya, and J. L. Sarrao
Spin waves in antiferromagnetic spin chains with long-range interactions *(7 pages)* 144412
Eddy Yusuf, Anuvrat Joshi, and Kun Yang
Atomic disorder effects on half-metallicity of the full-Heusler alloys $Co_2(Cr_{1-x}Fe_x)Al$: A first-principles study *(7 pages)* 144413
Yoshio Miura, Kazutaka Nagao, and Masafumi Shirai
Lack of influence of anisotropic electron clouds on resonant x-ray scattering from manganite thin films *(7 pages)* 144414
Y. Wakabayashi, H. Sawa, M. Nakamura, M. Izumi, and K. Miyano
Ferromagnetism and stability of half-metallic MnSb and MnBi in the strained zinc-blende structure: Predictions from full potential and pseudopotential calculations *(9 pages)* 144415
Jin-Cheng Zheng and James W. Davenport
Disorder-induced phases in higher-spin antiferromagnetic Heisenberg chains *(5 pages)* 144416
Enrico Carlon, Péter Lajkó, Heiko Rieger, and Ferenc Iglói
Distribution of exchange energy in a bond-alternating $S=1$ quantum spin chain *(9 pages)* 144417
A. Zheludev, T. Masuda, B. Sales, D. Mandrus, T. Papenbrock, T. Barnes, and S. Park
Spectroscopic signature of magnetic bistability in Mn_2O^- anions and its implications for piezomagnetism at the nanoscale *(5 pages)* 144418
S. N. Khanna, P. Jena, W.-J. Zheng, J. M. Nilles, and K. H. Bowen

(Continued)

PHYSICAL REVIEW B **THIRD SERIES, VOLUME 69, NUMBER 14** **APRIL 2004-1(II)**

Exchange anisotropy, disorder, and frustration in diluted, predominantly ferromagnetic, Heisenberg spin systems *(9 pages)* 144419
Chenggang Zhou, Malcolm P. Kennett, Xin Wan, Mona Berciu, and R. N. Bhatt
Polarized Raman scattering studies of crystal-field excitations in $ErNi_2B_2C$ *(4 pages)* 144420
H. Rho, M. V. Klein, and P. C. Canfield
Magnetic configurations in 160–520-nm-diameter ferromagnetic rings *(7 pages)* 144421
F. J. Castaño, C. A. Ross, A. Eilez, W. Jung, and C. Frandsen
Evidence of spin-pumping effect in the ferromagnetic resonance of coupled trilayers *(7 pages)* 144422
K. Lenz, T. Toliński, J. Lindner, E. Kosubek, and K. Baberschke
Magnetotransport near a quantum critical point in a simple metal *(11 pages)* 144423
Ya. B. Bazaliy, R. Ramazashvili, Q. Si, and M. R. Norman
Nonlinear magnetic susceptibility and aging phenomena in a reentrant ferromagnet: $Cu_{0.2}Co_{0.8}Cl_2$-$FeCl_3$ graphite bi-intercalation compound *(10 pages)* 144424
Masatsugu Suzuki and Itsuko S. Suzuki
Magnetic hyperfine interaction in $CeMn_2Ge_2$ and $CeMn_2Si_2$ measured by perturbed angular correlation spectroscopy *(7 pages)* 144425
A. W. Carbonari, J. Mestnik-Filho, R. N. Saxena, and M. V. Lalić
Second-order transverse magnetic anisotropy induced by disorder in the single-molecule magnet Mn_{12} *(6 pages)* 144426
Kyungwha Park, Tunna Baruah, Noam Bernstein, and Mark R. Pederson
Aging and scaling laws in β-hydroquinone-clathrate *(7 pages)* 144427
Maikel C. Rheinstädter, Klaus Knorr, and Heiko Rieger
Reversible spin-flop and irreversible metamagneticlike transitions induced by a magnetic field in the layered Gd_5Ge_4 antiferromagnet *(5 pages)* 144428
E. M. Levin, K. A. Gschneidner, Jr., T. A. Lograsso, D. L. Schlagel, and V. K. Pecharsky
Transverse spin dynamics in a spin-polarized Fermi liquid *(8 pages)* 144429
V. P. Mineev
Domain growth kinetics in the isosceles triangular Ising antiferromagnet $CoNb_2O_6$ *(11 pages)* 144430
S. Kobayashi, H. Okano, T. Jogetsu, J. Miyamoto, and S. Mitsuda
Theoretical study of resonance modes of coupled thin films in the rigid layer model *(6 pages)* 144431
A. Layadi

Superfluidity and superconductivity

Hot spots and transition from *d*-wave to another pairing symmetry in the electron-doped cuprate superconductors *(6 pages)* 144501
V. A. Khodel, Victor M. Yakovenko, M. V. Zverev, and Haeyong Kang
Two-fluxon dynamics in an annular Josephson junction *(6 pages)* 144502
Abdufarrukh A. Abdumalikov, Jr., Boris A. Malomed, and Alexey V. Ustinov
Pressure and linear heat capacity in the superconducting state of thoriated UBe_{13} *(4 pages)* 144503
R. J. Zieve, R. Duke, and J. L. Smith
Competing orders in thermally fluctuating superconductors in two dimensions *(9 pages)* 144504
Subir Sachdev and Eugene Demler
Quasi-one-dimensional dynamics and nematic phases in the two-dimensional Emery model *(7 pages)* 144505
Steven A. Kivelson, Eduardo Fradkin, and Theodore H. Geballe
Order-parameter-node removal in the *d*-wave superconductor $YBa_2Cu_3O_{7-x}$ in a magnetic field *(4 pages)* 144506
Roy Beck, Yoram Dagan, Alexander Milner, Alexander Gerber, and Guy Deutscher
Entropy and spin susceptibility of *s*-wave type-II superconductors near H_{c2} *(8 pages)* 144507
Takafumi Kita
Thermal hysteresis in the normal-state magnetization of $La_{2-x}Sr_xCuO_4$ *(7 pages)* 144508
C. Panagopoulos, M. Majoros, and A. P. Petrović

(Continued)

PHYSICAL REVIEW B **THIRD SERIES, VOLUME 69, NUMBER 14** **APRIL 2004-1(II)**

Nodal quasiparticle dispersion in strongly correlated *d*-wave superconductors *(5 pages)* 144509
Mohit Randeria, Arun Paramekanti, and Nandini Trivedi
Exposing the spin-glass ground state of the nonsuperconducting $La_{2-x}Sr_xCu_{1-y}Zn_yO_4$ high-T_c oxide *(6 pages)* 144510
C. Panagopoulos, A. P. Petrovic, A. D. Hillier, J. L. Tallon, C. A. Scott, and B. D. Rainford
Nonlinear excess conductivity of $Bi_2Sr_2Ca_{n-1}Cu_nO_{2n+4+x}$ $(n=1,2)$ thin films *(5 pages)* 144511
L. Fruchter, I. Sfar, F. Bouquet, Z. Z. Li, and H. Raffy
Electromagnetic response of layered superconductors with broken lattice inversion symmetry *(9 pages)* 144512
B. Uchoa, A. H. Castro Neto, and G. G. Cabrera
Single-vortex fluctuations in layered superconductors: Electromagnetic coupling and crossover to strong pinning *(22 pages)* 144513
Jan Kierfeld
Reversible magnetization of MgB_2 single crystals with a two-gap nature *(5 pages)* 144514
Byeongwon Kang, Heon-Jung Kim, Min-Seok Park, Kyung-Hee Kim, and Sung-Ik Lee
Resolution of two-dimensional currents in superconductors from a two-dimensional magnetic field measurement by the method of regularization *(14 pages)* 144515
D. M. Feldmann
Critical fluctuations and pseudogap observed in the microwave conductivity of $Bi_2Sr_2CaCu_2O_{8+\delta}$, $Bi_2Sr_2Ca_2Cu_3O_{10+\delta}$, and $YBa_2Cu_3O_{7-\delta}$ thin films *(12 pages)* 144516
D.-N. Peligrad, M. Mehring, and A. Dulčić
Weak-localization theory for quasiparticle dynamical conductivities of disordered *d*-wave superconductors *(17 pages)* 144517
Y. H. Yang, D. Y. Xing, M. Liu, and Min-Fong Yang
dc measurements of macroscopic quantum levels in a superconducting qubit structure with a time-ordered meter *(9 pages)* 144518
D. S. Crankshaw, K. Segall, D. Nakada, T. P. Orlando, L. S. Levitov, S. Lloyd, S. O. Valenzuela, N. Markovic, M. Tinkham, and K. K. Berggren
Theory of charge transport in diffusive normal metal/unconventional singlet superconductor contacts *(16 pages)* 144519
Y. Tanaka, Yu. V. Nazarov, A. A. Golubov, and S. Kashiwaya
Interplay of electron-phonon interaction and electron correlation in high-temperature superconductivity *(13 pages)* 144520
Sumio Ishihara and Naoto Nagaosa
Theory of superconductivity in ferromagnetic superconductors with triplet pairing *(6 pages)* 144521
V. P. Mineev and T. Champel
Simulation of vortex noise in superconductors in weak applied magnetic fields *(4 pages)* 144522
Anders Vestergren and Mats Wallin
Combination frequencies of magnetic oscillations in β''-$(BEDT\text{-}TTF)_4(NH_4)[Fe(C_2O_4)_3]\cdot DMF$ *(6 pages)* 144523
Alain Audouard, Vladimir N. Laukhin, Luc Brossard, Tatiana G. Prokhorova, Eduard B. Yagubskii, and Enric Canadell
High-energy phonon pulses in liquid ^4He *(10 pages)* 144524
Ruslan V. Vovk, Charles D. H. Williams, and Adrian F. G. Wyatt
Signal of high-energy phonons created by low-energy phonons in superfluid helium *(9 pages)* 144525
I. N. Adamenko, K. E. Nemchenko, V. A. Slipko, and A. F. G. Wyatt

(Continued)

PHYSICAL REVIEW B **THIRD SERIES, VOLUME 69, NUMBER 14** **APRIL 2004-1(II)**

ERRATA

Erratum: Magic-angle spinning NMR study of deuterium site occupancy and dynamics in $ZrNiD_{1.0}$ and $ZrNiD_{3.0}$ [Phys. Rev. B **65**, 024301 (2001)] *(1 page)* . . . . . 149901(E)
Natalie L. Adolphi, Sharwari Badola, Lisa A. Browder, and R. C. Bowman, Jr.

Cumulative Author Index i