

Lecture Notes in Physics

For information about Vols. 1–374
please contact your bookseller or Springer-Verlag

- Vol. 375: C. Bartocci, U. Bruzzo, R. Cianci (Eds.), *Differential Geometric Methods in Theoretical Physics. Proceedings, 1990.* XIX, 401 pages. 1991.
- Vol. 376: D. Berényi, G. Hock (Eds.), *High-Energy Ion-Atom Collisions. Proceedings, 1990.* IX, 364 pages. 1991.
- Vol. 377: W. J. Duschl, S.J. Wagner, M. Camenzind (Eds.), *Variability of Active Galaxies. Proceedings, 1990.* XII, 312 pages. 1991.
- Vol. 378: C. Bendjaballah, O. Hirota, S. Reynaud (Eds.), *Quantum Aspects of Optical Communications. Proceedings 1990.* VII, 389 pages. 1991.
- Vol. 379: J. D. Hennig, W. Lücke, J. Tolar (Eds.), *Differential Geometry, Group Representations, and Quantization.* XI, 280 pages. 1991.
- Vol. 380: I. Tuominen, D. Moss, G. Rüdiger (Eds.), *The Sun and Cool Stars: activity, magnetism, dynamos. Proceedings, 1990.* X, 530 pages. 1991.
- Vol. 381: J. Casas-Vazquez, D. Jou (Eds.), *Rheological Modelling: Thermodynamical and Statistical Approaches. Proceedings, 1990.* VII, 378 pages. 1991.
- Vol. 382: V.V. Dodonov, V. I. Man'ko (Eds.), *Group Theoretical Methods in Physics. Proceedings, 1990.* XVII, 601 pages. 1991.
- Vol. 384: M. D. Smooke (Ed.), *Reduced Kinetic Mechanisms and Asymptotic Approximations for Methane-Air Flames.* V, 245 pages. 1991.
- Vol. 385: A. Treves, G. C. Perola, L. Stella (Eds.), *Iron Line Diagnostics in X-Ray Sources. Proceedings, Como, Italy 1990.* IX, 312 pages. 1991.
- Vol. 386: G. Pétré, A. Sanfeld (Eds.), *Capillarity Today. Proceedings, Belgium 1990.* XI, 384 pages. 1991.
- Vol. 387: Y. Uchida, R. C. Canfield, T. Watanabe, E. Hiei (Eds.), *Flare Physics in Solar Activity Maximum 22. Proceedings, 1990.* X, 360 pages. 1991.
- Vol. 388: D. Gough, J. Toomre (Eds.), *Challenges to Theories of the Structure of Moderate-Mass Stars. Proceedings, 1990.* VII, 414 pages. 1991.
- Vol. 389: J. C. Miller, R. F. Haglund (Eds.), *Laser Ablation-Mechanisms and Applications. Proceedings.* IX, 362 pages, 1991.
- Vol. 390: J. Heidmann, M. J. Klein (Eds.), *Bioastronomy - The Search for Extraterrestrial Life. Proceedings, 1990.* XVII, 413 pages. 1991.
- Vol. 391: A. Zdziarski, M. Sikora (Eds.), *Relativistic Hadrons in Cosmic Compact Objects. Proceedings, 1990.* XII, 182 pages. 1991.
- Vol. 392: J.-D. Fournier, P.-L. Sulem (Eds.), *Large-Scale Structures in Nonlinear Physics. Proceedings.* VIII, 353 pages. 1991.
- Vol. 393: M. Remoissenet, M. Peyrard (Eds.), *Nonlinear Coherent Structures in Physics and Biology. Proceedings.* XII, 398 pages. 1991.
- Vol. 394: M. R. J. Hoch, R. H. Lemmer (Eds.), *Low Temperature Physics. Proceedings.* XXX,XXX pages. 1991.
- Vol. 395: H. E. Trease, M. J. Fritts, W. P. Crowley (Eds.), *Advances in the Free-Lagrange Method. Proceedings, 1990.* XI, 327 pages. 1991.
- Vol. 396: H. Mitter, H. Gausterer (Eds.), *Recent Aspects of Quantum Fields. Proceedings.* XIII, 332 pages. 1991.
- Vol. 398: T. M. M. Verheggen (Ed.), *Numerical Methods for the Simulation of Multi-Phase and Complex Flow. Proceedings, 1990.* VI, 153 pages. 1992.
- Vol. 399: Z. Švestka, B. V. Jackson, M. E. Machado (Eds.), *Eruptive Solar Flares. Proceedings, 1991.* XIV, 409 pages. 1992.
- Vol. 400: M. Dienes, M. Month, S. Turner (Eds.), *Frontiers of Particle Beams: Intensity Limitations. Proceedings, 1990.* IX, 610 pages. 1992.
- Vol. 401: U. Heber, C. S. Jeffery (Eds.), *The Atmospheres of Early-Type Stars. Proceedings, 1991.* XIX, 450 pages. 1992.
- Vol. 402: L. Boi, D. Flament, J.-M. Salanskis (Eds.), *1830-1930: A Century of Geometry.* VIII, 304 pages. 1992.
- Vol. 403: E. Balslev (Ed.), *Schrödinger Operators. Proceedings, 1991.* VIII, 264 pages. 1992.
- Vol. 404: R. Schmidt, H. O. Lutz, R. Dreizler (Eds.), *Nuclear Physics Concepts in the Study of Atomic Cluster Physics. Proceedings, 1991.* XVIII, 363 pages. 1992.
- Vol. 405: W. Hollik, R. Rückl, J. Wess (Eds.), *Phenomenological Aspects of Supersymmetry.* VII, 329 pages. 1992.
- Vol. 406: R. Kayser, T. Schramm, L. Nieser (Eds.), *Gravitational Lenses. Proceedings, 1991.* XXII, 399 pages. 1992.
- Vol. 407: P. L. Smith, W. L. Wiese (Eds.), *Atomic and Molecular Data for Space Astronomy.* VII, 158 pages. 1992.
- Vol. 408: V. J. Martínez, M. Portilla, D. Sàez (Eds.), *New Insights into the Universe. Proceedings, 1991.* XI, 298 pages. 1992.

New Series m: Monographs

Vol. m 1: H. Hora, *Plasmas at High Temperature and Density*. VIII, 442 pages. 1991.

Vol. m 2: P. Busch, P. J. Lahti, P. Mittelstaedt, *The Quantum Theory of Measurement*. XIII, 165 pages. 1991.

Vol. m 3: A. Heck, J. M. Perdang (Eds.), *Applying Fractals in Astronomy*. IX, 210 pages. 1991.

Vol. m 4: R. K. Zeytounian, *Mécanique des fluides fondamentale*. XV, 615 pages, 1991.

Vol. m 5: R. K. Zeytounian, *Meteorological Fluid Dynamics*. XI, 346 pages. 1991.

Vol. m 6: N. M. J. Woodhouse, *Special Relativity*. VIII, 86 pages. 1992.

Vol. m 7: G. Morandi, *The Role of Topology in Classical and Quantum Physics*. XIII, 239 pages. 1992.

Vol. m 8: D. Funaro, *Polynomial Approximation of Differential Equations*. X, 305 pages. 1992.

Vol. m 9: M. Namiki, *Stochastic Quantization*. X, 217 pages. 1992.

Vol. m 10: J. Hoppe, *Lectures on Integrable Systems*. VII, 111 pages. 1992.

Vol. m 11: A. D. Yaghjian, *Relativistic Dynamics of a Charged Sphere*. XII, 115 pages. 1992.

Vol. m 12: G. Esposito, *Quantum Gravity, Quantum Cosmology and Lorentzian Geometries*. XVI, 326 pages. 1992.