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Volume 100

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The Einstein Symposium Berlin brought together physicists, philosophers and historians from all over the world on the occasion of the scientist's 100th birthday. Their talks and discussions demonstrate how his research activities have left their impression on gravitation theory, cosmology, unified field theory, and microprocesses stochastic processes, and how they influence our way of thinking today.

Volume 107

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Volume 108

Nuclear Physics with Electromagnetic Interactions

Proceedings of the International Conference, Held in Mainz, Germany, June 5-9, 1979
Editors: H. ARENHÖVEL, D. DRECHSEL
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Volume 109

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Cracow School on Cosmology Jodowy Dwór, September 1978, Poland Editor: M. Demiański, University of Warszawa, Poland 1979. 39 figs., 15 tab. V, 210 pages. DM 25,—; approx. US \$14.80 ISBN 3-540-09562-4

Contents: M. MacCallum: The Mathematics of Anisotropic Spatially-Homogeneous Cosmologies. Ya.B. Zel'Dovich: Creation of Particles by Gravitational Field.— N. Caderni: Viscous Dissipation and Evolution of Homogeneous Cosmological Models.— Ya.B. Zel'Dovich: Cosmological Microwave Background Blackbody Radiation and Formation of Galaxies.— R.B. Partridge: Cosmological Anisotropies in the Microwave Background .-G. de Zotti: Constraints on the Possible Distortions of the Cosmic Background Radiation Spectrum.—
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Volume 110

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This is a text in classical mechanics for readers who know a little classical and quantum mechanics but not very much of either, intended to teach them more of each and to emphasize the continuity between them. At the same time this approach allows a discussion of optics starting from the relation between ray optics and wave optics. Many examples and problems help the student to grasp the underlying principles. This book shows clearly how close the mastering of classical mechanics and optics comes to quantum theory and where exactly new physical concepts entered the picture to arrive at its present form.

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