

Zeitschrift: Helvetica Physica Acta
Band: 70 (1997)
Heft: 3

Buchbesprechung: Nonlinear partial differential equations in geometry and physics : the 1995 Barrett lectures [G. Baker; A. Freire]
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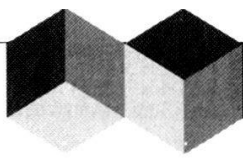
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PNLDE 29 • Progress in Nonlinear Differential Equations & Their Applications

G. Baker / A. Freire,
University of Tennessee, Knoxville, USA (Eds)

Nonlinear Partial Differential Equations in Geometry and Physics

The 1995 Barrett Lectures

1997. Approx. 168 pages. Hardcover
Approx. DM 68.- / öS 497.- / sFr. 58.-
ISBN 3-7643-5493-3

The subject of nonlinear partial differential equations is experiencing a period of intense activity in the study of systems underlying basic theories in geometry, topology and physics. These mathematical models share the property of being derived from variational principles. Understanding the structure of critical configurations and the dynamics of the corresponding evolution problems is of fundamental importance for the development of the physical theories and their applications.

This volume contains survey lectures in four different areas, delivered by leading researchers at the 1995 Barrett Lectures held at The University of Tennessee: nonlinear hyperbolic

systems arising in field theory and relativity (S. Klainerman); harmonic maps from Minkowski spacetime (M. Struwe); dynamics of vortices in the Ginzburg-Landau model of superconductivity (F.-H. Lin); the Seiberg-Witten equations and their application to problems in four-dimensional topology (R. Fintushel). Most of this material has not previously been available in survey form. These lectures provide an up-to-date overview and an introduction to the research literature in each of these areas, which should prove useful to researchers and graduate students in mathematical physics, partial differential equations, differential geometry and topology.

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