



Integrable Hamiltonian Hierarchies [Spectral and Geometric Methods /

Gerdjikov, V.S.

Springer Berlin Heidelberg,
2008

Physics Global analysis (Mathematics) Geometry Mathematical physics
Physics Mathematical Methods in Physics Analysis Mathematical and
Computational Physics Geometry Physics, general

Monografía

This book presents a detailed derivation of the spectral properties of the Recursion Operators allowing one to derive all the fundamental properties of the soliton equations and to study their Hamiltonian hierarchies. Thus it is demonstrated that the inverse scattering method for solving soliton equations is a nonlinear generalization of the Fourier transform. The book brings together the spectral and the geometric approaches and as such will be useful to a wide readership: from researchers in the field of nonlinear completely integrable evolution equations to graduate and post-graduate students

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Título: Integrable Hamiltonian Hierarchies [Recurso electrónico] Spectral and Geometric Methods edited by V.S. Gerdjikov, G. Vilasi, A.B. Yanovski

Editorial: Berlin, Heidelberg Springer Berlin Heidelberg 2008

Descripción física: digital

Mención de serie: Lecture Notes in Physics 0075-8450 748

Documento fuente: Springer eBooks

Contenido: Introduction -- Lax Representation and AKNS Approach -- The Direct Scattering Problem -- The Inverse Scattering Problem -- The Generalized Fourier Transforms -- Fundamental Properties of the Solvable NLEEs -- Hierarchies of Hamiltonian Structures -- The NLEEs and Gauge Transformations -- The Classical R-Matrix Method -- Smooth Manifolds -- Hamiltonian Dynamics -- Vector-Valued Differential Forms -- Integrability and Nijenhuis Tensors -- Poisson-Nijenhuis Structures Related to GZS System -- Linear Bundles of Lie Algebras and Compatible Poisson Structures

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Detalles del sistema: Modo de acceso: World Wide Web

Fuente de adquisición directa: Springer (Phys)

ISBN: 9783540770541 9783540770534 ed. impresa)

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Entidades: SpringerLink (Online service)

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