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Nonlinear Dynamics - Integrability, Chaos and Patterns ...

Buy Nonlinear Dynamics: Integrability, Chaos and Patterns (Advanced Texts in Physics) Softcover reprint of the original 1st ed. 2003 by Muthusamy Lakshmanan, Shanmuganathan Rajaseekar (ISBN: 9783642628726) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

Nonlinear Dynamics: Integrability, Chaos and Patterns ...

Integrability and chaos are two of the main concepts associated with nonlinear physical systems which have revolutionized our understanding of them. Highly stable exponentially localized solitons are often associated with many of the important integrable nonlinear systems while motions which are sensitively dependent on ini-

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The Dynamics of Differential Equations. Hamiltonian Dynamics. Classical Perturbation Theory. Chaos in Hamiltonian Systems and Area--Preserving Mappings. The Dynamics of Dissipative Systems. Chaos and Integrability in Semiclassical Mechanics. Nonlinear Evolution Equations and Solitons. Analytic Structure of Dynamical Systems. Index.

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Integrability, chaos and patterns are three of the most important concepts in nonlinear dynamics. These are covered in this book from fundamentals to recent developments. The book presents a self-contained treatment of the subject to suit the needs of students, teachers and researchers in physics, mathematics, engineering and applied sciences who wish to gain a broad knowledge of nonlinear dynamics.

Nonlinear Dynamics | SpringerLink

Chaos and Integrability in Nonlinear Dynamics: An Introduction. Presents the newer field of chaos in nonlinear dynamics as a natural extension of classical mechanics as treated by differential equations. Employs Hamiltonian systems as the link between classical and nonlinear dynamics, emphasizing the concept of integrability.

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Presents the newer field of chaos in nonlinear dynamics as a natural extension of classical mechanics as treated by differential equations. Employs Hamiltonian systems as the link between classical and nonlinear dynamics, emphasizing the concept of integrability. Also discusses nonintegrable dynamics, the fundamental KAM theorem, integrable partial differential equations, and soliton dynamics.

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Abstract. The study of nonlinear dynamics has been an active area of research since 1960s, after certain path-breaking discoveries, leading to the concepts of solitons, integrability, bifurcations, chaos and spatio-temporal patterns, to name a few. Several new techniques and methods have been developed to understand nonlinear systems at different levels.

Nonlinear dynamics: Challenges and perspectives

"The book is an extensive treatise of nonlinear dynamical systems with emphasis on the concepts of chaos, integrability and patterns. ... the book contains numerous examples and exercises divided in two groups by their difficulty." (Peter Polacik, Zentralblatt MATH, Vol. 1038 (13), 2004)

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Integrability, chaos and patterns are three of the most important concepts in nonlinear dynamics. These are covered in this book from fundamentals to recent developments. The book presents a self-contained treatment of the subject to suit the needs of students, teachers and researchers in physics, mathematics, engineering and applied sciences who wish to gain a broad knowledge of nonlinear dynamics.

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