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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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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.

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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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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, inte-grability, 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.

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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)

Nonlinear Dynamics: Integrability, Chaos and Patterns by ...

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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