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In the 25 years of its existence Soliton Theory has drastically expanded our understanding of “integrability” and contributed a lot to the reunification of Mathematics and Physics in the range

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Solitons from deep algebraic geometry and modern representation theory to quantum field theory and optical transmission lines. The book is a systematic introduction to the Soliton Theory with an emphasis on its background and algebraic aspects. It is the first one devoted to the general matrix soliton equations, which

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are of great importance
for the foundations and
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Solitons are applied to various equations including principal chiral fields, Heisenberg magnets, Sin-Gordon, and Nonlinear Schrödinger equation.

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numerical analysis for nonlinear waves, and gravitational solitons. Besides the essential points of the theory, several applications are sketched and some recent developments, partly by the authors and their collaborators, are presented.

The current research into solitons and their

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use in fiber optic communications is very important to the future of communications. Since the advent of computer networking and high speed data transmission technology people have been striving to develop faster and more reliable communications media. Optical pulses tend to broaden over relatively

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short distances due to dispersion, but solitons on the other hand are not as susceptible to the effects of dispersion, and although they are subject to losses due to attenuation they can be amplified without being received and re-transmitted. This book is the first to provide a thorough overview of optical solitons. The

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main purpose of this book is to present the rapidly developing field of Spatial Optical Solitons starting from the basic concepts of light self-focusing and self-trapping. It will introduce the fundamental concepts of the theory of nonlinear waves and solitons in non-integrated but physically realistic

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models of nonlinear optics including their stability and dynamics. Also, it will summarize a number of important experimental verification of the basic theoretical predictions and concepts covering the observation of self-focusing in the earlier days of nonlinear optics and the most recent experimental results on

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Solitons, vortex solitons, and soliton interaction & spiraling.

* Introduces the fundamental concepts of the theory of nonlinear waves and solitons through realistic models

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Summarizes the most

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Despite remarkable developments in the field, a detailed treatment of non-Kerr law media has not been published. Introduction

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to non-Kerr Law Optical Solitons is the first book devoted exclusively to optical soliton propagation in media that possesses non-Kerr law nonlinearities. After an introduction to the basic features of fiber-optic com

Optical Multi-Bound Solitons describes the generation and

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transmission of multi-bound solitons with the potential to form the basis of the temporal coding of optical data packets for next-generation nonlinear optical systems. The book deals with nonlinear systems in terms of their fundamental principles, associated phenomena, and signal processing

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Splitter applications in

contemporary optical systems for communications and

laser systems, with a touch of mathematical representation of

nonlinear equations to offer insight into the nonlinear dynamics at

different phases. The text not only delineates the strong background

physics of such systems

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Solitons Discusses the phase evolution of the optical carriers under the soliton envelopes for the generation of multi-bound solitons Explains the generation of multi-bound solitons through optical fibers Examines new types of multi-bound solitons in passive and active optical resonators Conducts bi-spectral

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analyses of multi-bound solitons to identify the phase and power

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property of bound

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experimental techniques

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generation of bound

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Bound Solitons provides

extensive coverage of

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from the dynamics of

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formation to their transmission over guided optical media. Appendices are included to supplement a number of essential definitions, mathematical representations, and derivations, making this book an ideal theoretical reference text as well as a practical professional guidebook.

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Solitons wave physics plays a significant role from modern optical physics to optical communication, optical switching and optical storage. This book gives an updated overview of optical solitons, as a reference and guide for advanced students and scientists working in the field.

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Solitons Provides an overview of our current understanding of optical soliton properties introducing the subject for students and reviewing the most recent research.

Nonlinearity is a fascinating element of nature whose importance has been appreciated for many

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years when considering large-amplitude wave motions observed in various fields ranging from fluids and plasmas to solid-state, chemical, biological, and geological systems.

Localized large-amplitude waves called solitons, which propagate without spreading and have particle-like properties,

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Solitons represent one of the most striking aspects of nonlinear phenomena. Although a wealth of literature on the subject, including theoretical and numerical studies, is available in good recent books and research journals, very little material has found its way into introductory textbooks and curricula. This is perhaps due to a

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belief that nonlinear physics is difficult and cannot be taught at an introductory level to undergraduate students and practitioners.

Consequently, there is considerable interest in developing practical material suitable for students, at the lowest introductory level. This book is intended to be an elementary

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Solitons introduction to the physics of solitons, for students, physicists, engineers and practitioners. We present the modeling of nonlinear phenomena where soliton-like waves are involved, together with applications to a wide variety of concrete systems and experiments. This book

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Solitons is designed as a book of physical ideas and basic methods and not as an up-to-the minute book concerned with the latest research results. The background in physics and the amount of mathematical knowledge assumed of the reader is within that usually accumulated by junior or senior students in physics.

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Solitons are waves that retain their form through obstacle and distance.

Solitons can be found in hydrodynamics, nonlinear optics, plasma physics, and biology.

Optical solitons are solitary light waves that hold their form over an expansive interval.

Conservation of this form creates an effective

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Solitons model for long distance voice and data transmission. The application of this principle is essential to the technology of wired communications.

Optical solitons produce crystal clear phone calls cross-country and internationally. It is because of these that someone on the other end of the phone sounds

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'in the next room.' It is also pertinent to high-speed network information transmittal. Mollenauer and Gordon have written the only text that an engineer or graduate student will need to understand this foundation subject in optics. *Written by Linn Mollenauer and James Gordon who are celebrated for applying

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*Combines

mathematical

developments with well-
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