

# Handbook of Solitons

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and  
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# Handbook Of Solitons Research Technology And

**Mool C. Gupta, John Ballato**



## **Handbook Of Solitons Research Technology And:**

*Handbook of Solitons* S. P. Lang, 2009      **Solitons** Boling Guo, Xiao-Feng Pang, Yu-Feng Wang, Nan Liu, 2018-03-19 This book provides an up to date overview of mathematical theories and research results on solitons presenting related mathematical methods and applications as well as numerical experiments Different types of soliton equations are covered along with their dynamical behaviors and applications from physics making the book an essential reference for researchers and graduate students in applied mathematics and physics Contents Introduction Inverse scattering transform Asymptotic behavior to initial value problems for some integrable evolution nonlinear equations Interaction of solitons and its asymptotic properties Hirota method Bäcklund transformations and the infinitely many conservation laws Multi dimensional solitons and their stability Numerical computation methods for some nonlinear evolution equations The geometric theory of solitons Global existence and blow up for the nonlinear evolution equations The soliton movements of elementary particles in nonlinear quantum field The theory of soliton movement of superconductive features The soliton movements in condensed state systems contents      *Asymptotic Perturbation Methods* Attilio Maccari, 2023-01-10 Asymptotic Perturbation Methods Cohesive overview of powerful mathematical methods to solve differential equations in physics Asymptotic Perturbation Methods for Nonlinear Differential Equations in Physics addresses nonlinearity in various fields of physics from the vantage point of its mathematical description in the form of nonlinear partial differential equations and presents a unified view on nonlinear systems in physics by providing a common framework to obtain approximate solutions to the respective nonlinear partial differential equations based on the asymptotic perturbation method Aside from its complete coverage of a complicated topic a noteworthy feature of the book is the emphasis on applications There are several examples included throughout the text and crucially the scientific background is explained at an elementary level and closely integrated with the mathematical theory to enable seamless reader comprehension To fully understand the concepts within this book the prerequisites are multivariable calculus and introductory physics Written by a highly qualified author with significant accomplishments in the field Asymptotic Perturbation Methods for Nonlinear Differential Equations in Physics covers sample topics such as Application of the various flavors of the asymptotic perturbation method such as the Maccari method to the governing equations of nonlinear system Nonlinear oscillators limit cycles and their bifurcations iterated nonlinear maps continuous systems and nonlinear partial differential equations NPDEs Nonlinear systems such as the van der Pol oscillator with advanced coverage of plasma physics quantum mechanics elementary particle physics cosmology and chaotic systems Infinite period bifurcation in the nonlinear Schrodinger equation and fractal and chaotic solutions in NPDEs Asymptotic Perturbation Methods for Nonlinear Differential Equations in Physics is ideal for an introductory course at the senior or first year graduate level It is also a highly valuable reference for any professional scientist who does not possess deep knowledge about nonlinear physics      **The Mystery of Ball Lightning Revealed** Vladimir Torchigin, 2024-10-28 In this book the

consequences of a perfectly new natural phenomenon associated with the existence of self confined circulating light which is responsible for the paradoxical behavior and anomalies of ball lightning are considered It is shown that similar phenomena can exist in the microworld which makes it possible to explain the finite lifetime of microworld objects their wave properties mutual attraction and the possibility of energy exchange between nuclei without overcoming the Coulomb barrier The latter possibility allows the extraction of nuclear energy using circulating light Several options for nuclear power plants are given where nuclear fuel is ordinary water The book is based on over 80 scientific articles published in leading international scientific journals in physics and optics

**Handbook of Laser Technology and Applications** Chunlei Guo, Subhash Chandra Singh, 2021-06-23 This comprehensive handbook gives a fully updated guide to lasers and laser systems including the complete range of their technical applications The first volume outlines the fundamental components of lasers their properties and working principles The second volume gives exhaustive coverage of all major categories of lasers from solid state and semiconductor diode to fiber waveguide gas chemical and dye lasers The third volume covers modern applications in engineering and technology including all new and updated case studies spanning telecommunications and data storage to medicine optical measurement defense and security nanomaterials processing and characterization

**The Handbook of Photonics** Mool C. Gupta, John Ballato, 2018-10-03 Reflecting changes in the field in the ten years since the publication of the first edition The Handbook of Photonics Second Edition explores recent advances that have affected this technology In this new updated second edition editor Mool Gupta is joined by John Ballato strengthening the handbook with their combined knowledge and the continued contributions of world class researchers New in the Second Edition Information on optical fiber technology and the economic impact of photonics Coverage of emerging technologies in nanotechnology Sections on optical amplifiers and polymeric optical materials The book covers photonics materials devices and systems respectively An introductory chapter new to this edition provides an overview of photonics technology innovation and economic development Resting firmly on the foundation set by the first edition this new edition continues to serve as a source for introductory material and a collection of published data for research and training in this field making it the reference of first resort

**Handbook Of Machine Learning - Volume 2: Optimization And Decision Making** Tshilidzi Marwala, Collins Achepsah Leke, 2019-11-21 Building on this volume on Optimization and Decision Making covers a range of algorithms and their applications Like the first volume it provides a starting point for machine learning enthusiasts as a comprehensive guide on classical optimization methods It also provides an in depth overview on how artificial intelligence can be used to define disprove or validate economic modeling and decision making concepts

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with rhenium catalysts and the reactivity of highly ordered polyacetylene blends to oxidation and doping are also discussed. An additional indexed section containing several hundred abstracts from the Rapra Polymer Library database gives useful references for further reading.

**A Practical Guide For Studying Chua's Circuits** Recai Kilic, 2010-03-12 Autonomous and nonautonomous Chua's circuits are of special significance in the study of chaotic system modeling, chaos based science and engineering applications. Since hardware and software based design and implementation approaches can be applied to Chua's circuits, these circuits are also excellent educative models for studying and experimenting nonlinear dynamics and chaos. This book not only presents a collection of the author's published papers on design, simulation and implementation of Chua's circuits, it also provides a systematic approach to practising chaotic dynamics.

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**Glimpses of Soliton Theory** Alex Kasman, 2023-03-30 This book challenges and intrigues from beginning to end. It would be a treat to use for a capstone course or senior seminar.

William J. Satzer, MAA Reviews on Glimpses of Soliton Theory First Edition Solitons are nonlinear waves which behave like interacting particles. When first proposed in the 19th century, leading mathematical physicists denied that such a thing could exist. Now they are regularly observed in nature, shedding light on phenomena like rogue waves and DNA transcription. Solitons of light are even used by engineers for data transmission and optical switches. Furthermore, unlike most nonlinear partial differential equations, soliton equations have the remarkable property of being exactly solvable. Explicit solutions to those equations provide a rare window into what is possible in the realm of nonlinearity. Glimpses of Soliton Theory reveals the hidden connections discovered over the last half century that explain the existence of these mysterious mathematical objects. It aims to convince the reader that like the mirrors and hidden pockets used by magicians, the underlying algebro-geometric

structure of soliton equations provides an elegant explanation of something seemingly miraculous Assuming only multivariable calculus and linear algebra the book introduces the reader to the KdV Equation and its multisoliton solutions elliptic curves and Weierstrass wp functions the algebra of differential operators Lax Pairs and their use in discovering other soliton equations wedge products and decomposability the KP Hierarchy and Sato's theory relating the Bilinear KP Equation to the geometry of Grassmannians Notable features of the book include careful selection of topics and detailed explanations to make the subject accessible to undergraduates numerous worked examples and thought provoking exercises footnotes and lists of suggested readings to guide the interested reader to more information and use of Mathematica to facilitate computation and animate solutions The second edition refines the exposition in every chapter adds more homework exercises and projects updates references and includes new examples involving non commutative integrable systems Moreover the chapter on KdV multisolitons has been greatly expanded with new theorems providing a thorough analysis of their behavior and decomposition

Solitons Mohamed Atef Helal, 2022-11-12 This newly updated volume of the Encyclopedia of Complexity and Systems Science ECSS presents several mathematical models that describe this physical phenomenon including the famous non linear equation Korteweg de Vries KdV that represents the canonical form of solitons Also there exists a class of nonlinear partial differential equations that led to solitons e.g. Kadomtsev Petviashvili KP Klein Gordon KG Sine Gordon SG Non Linear Schrödinger NLS Korteweg de Vries Burger's KdVB etc Different linear mathematical methods can be used to solve these models analytically such as the Inverse Scattering Transformation IST Adomian Decomposition Method Variational Iteration Method VIM Homotopy Analysis Method HAM and Homotopy Perturbation Method HPM Other non analytic methods use the computational techniques available in such popular mathematical packages as Mathematica Maple and MATLAB The main purpose of this volume is to provide physicists engineers and their students with the proper methods and tools to solve the soliton equations and to discover the new possibilities of using solitons in multi disciplinary areas ranging from telecommunications to biology cosmology and oceanographic studies

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