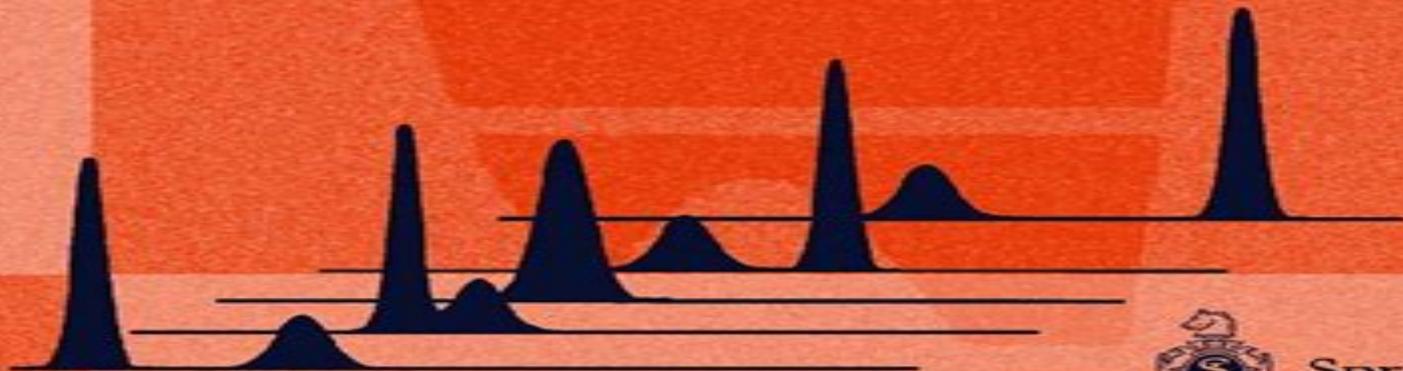


Michel Remoissenet

Waves Called Solitons

Concepts and Experiments

Third Revised and Enlarged Edition



Springer

Waves Called Solitons

**Alwyn Scott, Mads Peter
Sørensen, Peter L. Christiansen**

Waves Called Solitons:

Waves Called Solitons Michel Remoissenet, 2013-04-17 Encouraged by the friendly reception given to the first edition I have preserved its basic form and most of the details Apart from some corrections minor changes and addition of references where it was necessary I have made the following changes Chapter 1 was expanded by a discussion of the discovery of solitons in the field of electromagnetic waves and optics A new section devoted to nonlinear transmission lines and their applications in the microwave range has been added to Chap 3 It seems to me that it was important to describe laboratory experiments on modulational instability and subsequent generation of solitons both in electrical transmission lines and in deep water in Chaps 4 and 5 A description of a very simple experimental pocket version of the mechanical transmission line has been included in Chap 6 Such a versatile and useful device should stimulate a practical approach to soliton physics Chapter 7 was completed by a short presentation of some recent experimental results on discrete Josephson transmission lines A discussion of the experimental modulational instability of coupled optical waves and a simple look at quantum solitons were added to Chap 8 in order to introduce the reader to such remarkable topics Of the many people who made valuable comments on the first edition I am particularly grateful to M Dragoman Y S Kivshar and A W Snyder I would like to thank R S MacKay whose corrections and suggestions helped refine the manuscript of this second edition

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Michel Remoissenet, 2013-03-09 In the third edition the presentation of new topics has been deliberately kept simple for pedagogical purposes Chapter 1 was completed by references to the tidal bore and magnetic envelope solitons Two new sections devoted to magnetic envelope solitons and signal processing with solitons have been added to Chap 4 Short comments on models describing blood pressure pulse propagation in terms of solitons were added to chapter 5 A description of a new mechanical transmission line with two equilibrium states has been included in Chap 6 Such an analog device is useful to illustrate the properties of kink solitons and to observe solitary waves with a compact shape called compactons New references concerning recent advances in experimental techniques and lattice effects were added to Chap 7 In Chap 8 a short introduction to spatial optical solitons in continuous and discrete systems was included Chapter 9 was completed by new sections devoted to nonlinear lattice models and energy localization The concepts of self trapped states and intrinsic localized modes or discrete breathers are discussed Different analog chains which make it possible to observe the characteristic features of discrete breathers are described Contrary to previous chapters where we have considered reversible or conservative systems where solitons can exist owing to the dynamical balance between linear dispersion and nonlinearity Chapter 11 which is a new chapter is devoted to irreversible systems where nonlinearity can balance the effects of dissipation leading to diffusing solitary waves or diffusive solitons

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Michel Remoissenet, 2014-03-12 Encouraged by the friendly reception given to the first edition I have preserved its basic form and most of the details Apart from some corrections minor changes and addition of references where it was necessary I have

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Waves Called Solitons Concepts And Experiments M. Remoissenet, **Waves Called Solitons** M. Remoissenet, 1994 The main concepts are introduced at an elementary level accessible to the undergraduate In a self contained and interdisciplinary whole such topics as electrical hydrodynamic mechanical and optical solitons are discussed Many of the author's choices of emphasis have been made with experiments in mind several experiments can readily be performed by the reader

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final year undergraduates and beginning graduate students studying fluid dynamics plasma physics and applied mathematics

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 Schr dinger 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 **Encyclopedia of Atmospheric Sciences** Gerald R.

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Journal of the Physical Society of Japan Nihon Butsuri Gakkai, 1992 **Nonlinear Science** Alwyn Scott, Mads Peter Sørensen, Peter L. Christiansen, 1999 Breakthroughs in handling nonlinear systems have had a tremendous impact throughout the sciences allowing researchers to create more realistic models for a wide range of processes This book although written at an introductory level covers some of the most exciting recent work including soliton theory nonlinear lattices excitable media perturbation theory and the theory of quantum lattices It will be a valuable guide for graduate students and researchers in physics applied mathematics biophysics and engineering *New Nonlinear*

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