



## Soliton equations and their algebro-geometric solutions.

Gesztesy, Fritz (1953-)

Cambridge University Press, 2003

Electronic books

Monografía

The Korteweg-de Vries (KdV), the AKNS, the nonlinear Schrödinger, the sine-Gordon and the Camassa-Holm equations, and the Thirring system, are all completely integrable nonlinear PDEs permitting special classes of solutions. This is a detailed treatment of the class of algebro-geometric solutions and their representations in terms of Riemann theta functions

<https://rebiunoda.pro.baratznet.cloud:38443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMjg2Njk3OTU>

**Título:** Soliton equations and their algebro-geometric solutions. Volume 1+1 Dimensional continuous models electronic resource] Fritz Gesztesy, Helge Holden

**Editorial:** Cambridge, UK New York Cambridge University Press 2003

**Descripción física:** 1 online resource (519 p.)

**Mención de serie:** Cambridge studies in advanced mathematics 79

**Nota general:** Description based upon print version of record

**Bibliografía:** Includes bibliographical references and index

**Contenido:** Cover; Half-title; Series-title; Title; Copyright; Dedication; Contents; Acknowledgments; Introduction; 1 The KdV Hierarchy; 2 The Combined sine-Gordon and Modified KdV Hierarchy; 3 The AKNS Hierarchy; 4 The Classical Massive Thirring System; 5 The Camassa-Holm Hierarchy; Appendix A Algebraic Curves and Their Theta Functions in a Nutshell; Appendix B Hyperelliptic Curves of the KdV-Type; Appendix C Hyperelliptic Curves of the AKNS-Type; Appendix D Asymptotic Spectral Parameter Expansions and Nonlinear Recursion Relations; Appendix E Lagrange Interpolation Appendix F Symmetric Functions, Trace Formulas, and Dubrovin-Type Equations Appendix G KdV and AKNS Darboux-Type Transformations; Appendix H Elliptic Functions; Appendix I Herglotz Functions; Appendix J Spectral Measures and Weyl-Titchmarsh m-Functions for Schrödinger Operators; List of Symbols; Bibliography; Index

**Lengua:** English

**ISBN:** 1-107-12855-2 1-280-41775-7 9786610417759 0-511-16955-8 0-511-06657-0 0-511-20551-1 0-511-30840-X 0-511-54672-6 0-511-06870-0

**Materia:** Differential equations, Nonlinear- Numerical solutions Solitons

**Autores:** Gesztesy, Fritz ( 1953-)

**Enlace a formato físico adicional:** 0-521-75307-4

**Punto acceso adicional serie-Título:** Cambridge studies in advanced mathematics 79

---

### **Baratz Innovación Documental**

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- [informa@baratz.es](mailto:informa@baratz.es)