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Soliton Equations and Their Algebro-Geometric Solutions
0521753074 - Soliton Equations and their Algebro-Geometric Solutions, Volume I: (1 + 1)-Dimensional Continuous Models. Fritz Gesztesy and Helge Holden. Frontmatter. More information.

(PDF) Soliton Equations and Their Algebro-Geometric Solutions
of hierarchies of soliton equations. Scope: We aim for an elementary, yet self-contained and precise, presentation of hierarchies of integrable soliton equations and their algebro-geometric solutions. Our point of view is predominantly influenced by analytical methods, especially by spectral theoretic techniques.

SOLITON EQUATIONS AND THEIR ALGEBRO-GEOMETRIC SOLUTIONS
Soliton equations and their algebro-geometric solutions. Vol. I. (1+1)-dimensional continuous models, by Fritz Gesztesy and Helge Holden, Cambridge Studies in Advanced Mathematics, 79, Cambridge University Press, Cambridge, 2003, xii+505 pp., US\$117.00, ISBN 0-521-75307-4

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Soliton Equations and Their Algebro-Geometric Solutions: Volume 2, (1+1)-Dimensional Discrete Models. Fritz Gesztesy, Helge Holden, Johanna Michor, Gerald Teschl CAMBRIDGE UNIVERSITY PRESS 2008. 438 PAGES PRICE (HARDBACK) £85.00 ISBN 978-0-52-175308-1.

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The theory presented includes trace formulas, algebro-geometric initial value problems, Baker-Akhiezer functions, and theta function representations of all relevant quantities involved. The book uses basic techniques from the theory of difference equations and spectral analysis, some elements of algebraic geometry and especially, the theory of compact Riemann surfaces.

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2. The Korteweg-de Vries equation We will concentrate on the most canonical partial differential equation that describes this phenomenon; the Korteweg-de Vries equation. However, we will introduce other examples to demonstrate more general principles. There was no mathematical model that accounted for this physical phenomenon at the time.

Part 1 : Soliton equations - math.caltech.edu
onal curves by their characteristic equations, and determine Dubrovin type equations for zeros and poles of meromorphic functions defined as ratios of the Baker-Akhiezer functions. We straighten out all flows in soliton hierarchies under the Abel-Jacobi coor-dinates associated with Lax pairs, and generate algebro-geometric solutions to soliton

Trigonal curves and algebro-geometric solutions to soliton ...
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Glimpses of Soliton Theory: The Algebra and Geometry of ...
051501-3 M. Gurses and A. Pekcan J. Math. Phys. 59, 051501 (2018) of the S-symmetric nonlocal NLS equation and give some examples for one-soliton, two-soliton, and three-soliton solutions and plot the function |q(x, t)|² for each example. II. HIROTA METHOD FOR COUPLED NLS SYSTEM To find soliton solutions, we use the Hirota method for (1) and ...

Nonlocal nonlinear Schrödinger equations and their soliton ...
In this lesson we simply look at the definition of an equation. Then we look at what it means for a number to be a solution to an equation based on the truth...