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Solitary Waves in Fluid Media

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About the ebook

Many theoretical works can be found on solitary waves. this book presents a state of the art theoretical study of solitary waves. Prominent actual works on solitary waves are described.

Contents

- ▶ Introduction: Classical nonlinear evolution equations and solitary waves
- ▶ Exact analytic solutions of nonlinear evolution equations
- ▶ The panel of resolution methods
- ▶ Asymptotic behavior of solitary waves
- ▶ Some Aspects concerning the Numerical Computation of Solitons
- ▶ Attractor and traveling wave solutions for 3D Ginzburg-Landau type equation
- ▶ The Dynamics of Two Classes of Singular Nonlinear Traveling Wave Equations and Loop Solutions
- ▶ The interrelationship of integrable equations, differential geometry and the geometry of their associated surfaces

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