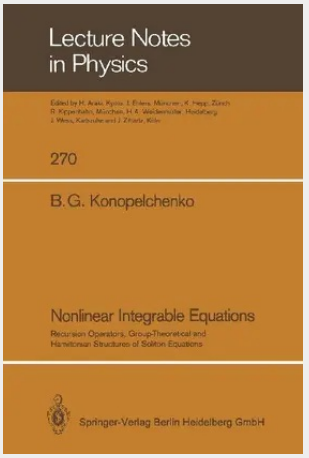
Konopelchenko

Nonlinear Integrable Equations

Recursion Operators, Group-Theoretical and Hamiltonian Structures of Soliton Equations

General ideas of the recursion operator method and adjoint representation.- Linear matrix bundle.- BC group and general integrable equations under reductions.- Quadratic bundle with Z 2 grading.- Polynomial and rational bundles.- Polynomial and rational bundles.- General differential spectral problem.- Generalization and reductions of the differential spectral problem and integrodifferential spectral problems.- Two-dimensional matrix spectral problem.- Two-dimensional differential spectral problem.- Towards to the general theory of recursion structure of nonlinear evolution equations.

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