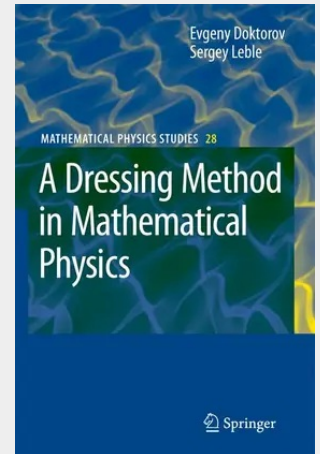


A Dressing Method in Mathematical Physics

This monograph systematically develops and considers the so-called "dressing method" for solving differential equations (both linear and nonlinear), a means to generate new non-trivial solutions for a given equation from the (perhaps trivial) solution of the same or related equation. Throughout, the text exploits the "linear experience" of presentation, with special attention given to the algebraic aspects of the main mathematical constructions and to practical rules of obtaining new solutions.

Mathematical preliminaries.- Factorization and classical Darboux transformations.- From elementary to twofold elementary Darboux transformation.- Dressing chain equations.- Dressing in 2+1 dimensions.- Applications of dressing to linear problems.- Important links.- Dressing via local Riemann-Hilbert problem.- Dressing via nonlocal Riemann-Hilbert problem.- Generating solutions via ? problem.



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