

introduction to soliton theory: applications to mechanics - x introduction to soliton theory : applications to mechanics an explosion of works occurred when it was discovered that many phenomena in physics, electronics, mechanics and biology might be described by using the theory of solitons. nonlinear mechanics is often faced with the unexpected appearance of chaos or order.

introduction to soliton theory: applications to mechanics - vi introduction to soliton theory: applications to mechanics 3.4 scattering problem for the kdv equation 90 3.5 inverse scattering problem for the kdv equation 95 3.6 multi-soliton solutions of the kdv equation 101 3.7 boussinesq, modified kdv and burgers equations 107 3.8 the sine-gordon and schrödinger equations 112

backlund and darboux transformations geometry and modern ... - geometry and modern applications in soliton theory c. rogers professor of applied mathematics the university of new south wales w.k. schief queen elizabeth ii, arc research fellow the university of new south wales v

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