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Titolo	Non-Linear Equations in Classical and Quantum Field Theory [[electronic resource]] : Proceedings of a Seminar Series held at DAPHE, Observatoire de Meudon, and LPTHE, Université Pierre et Marie Curie, Paris, Between October 1983 and October 1984 / / edited by Norma Sanchez
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Collana	Lecture Notes in Physics, , 0075-8450 ; ; 226
Disciplina	530.12
Soggetti	Quantum physics Gravitation Quantum computers Spintronics Quantum Physics Classical and Quantum Gravitation, Relativity Theory Quantum Information Technology, Spintronics
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Nota di contenuto	A new class of unitarizable highest weight representations of infinite dimensional Lie algebras -- Formal integrability of systems of partial differential equations -- Quantum integrability and classical integrability -- Bäcklund transformations for nonlinear field equations -- Spectral transform approach to Bäcklund transformations -- Gauge coupling of non-linear ϕ^4 -model and a generalized Mazur identity -- Magnetic monopoles -- Multimonopoles and the Riemann-Hilbert problem -- Classical solutions of Yang-Mills fields (selected topics) -- Stationary solutions of the Einstein-Maxwell equations -- Non linear sigma models: A geometrical approach in quantum field theory -- An approach towards the quantization of the relativistic closed string based upon symmetries -- Yang-Baxter charge algebras in integrable classical and quantum field theories -- The quantum Toda chain -- On

soluble cases of staggered ice-rule on a square lattice -- Fields on a random lattice II random surfaces : A search for a discrete model -- Products of random matrices and one dimensional disordered systems -- Exact disorder solutions -- The Coulomb gas systems : Some rigorous results -- Instanton contribution to the CP1-model with periodic boundary conditions -- Stochastic quantization and gravity -- Feynman's checkerboard and other games.
