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Titolo	Integrable Models and Strings [[electronic resource] ] : Proceedings of the 3rd Baltic Rim Student Seminar Held at Helsinki, Finland, 13–17 September 1993 // edited by Anton Alekseev, Antero Hietamäki, Katri Huitu, Alexei Morozov, Antti Niemi
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Disciplina	530.1/5
Soggetti	Statistical physics Dynamical systems Quantum computers Spintronics Quantum physics Thermodynamics Complex Systems Quantum Information Technology, Spintronics Quantum Physics Statistical Physics and Dynamical Systems
Lingua di pubblicazione	Inglese
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Nota di contenuto	The new results on lattice deformation of current algebra -- Baxterization, dynamical systems, and the symmetries of integrability -- A lecture on the Calogero-Sutherland models -- Quantum group and magnetic translations. Bethe-Ansatz solution for bloch electrons in a magnetic field -- Symplectic geometry of the Chern-Simons theory -- Quantization of field theories generalizing Gravity-Yang-Mills systems on the cylinder -- Wodzicki residue and anomalies of current algebras -- Spacetime locality of the antifield formalism: General theorems illustrated by means of examples -- On supersymmetric and topological quantum mechanical models -- Structures of K.Saito theory of primitive form in topological theories coupled to topological gravity

-- String theory and classical integrable systems -- On background independence in string theory -- Lectures on mirror symmetry.

Sommario/riassunto

This is a collection of papers on a variety of topics of current interest in mathematical physics: integrable systems, quantum groups, topological quantum theory, string theory. Some of the contributions are lengthy reviews of lasting value on subjects like symplectic geometry of the Chern-Simons theory or on mirror symmetry. The book addresses graduate students as well as researchers in mathematical physics.