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	Titolo	Conformal Field Theories and Integrable Models [[electronic resource]] : Lectures Held at the Eötvös Graduate Course, Budapest, Hungary, 13–18 August 1996 / / edited by Zalan Horvath, Laszlo Palla
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	Collana	Lecture Notes in Physics, , 0075-8450 ; ; 498
	Disciplina	530.14/3
	Soggetti	Elementary particles (Physics) Quantum field theory Statistical physics Dynamical systems Quantum computers Spintronics Quantum physics Elementary Particles, Quantum Field Theory Complex Systems Quantum Information Technology, Spintronics Quantum Physics Statistical Physics and Dynamical Systems
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	Nota di contenuto	Lectures on conformal field theory and kac-moody algebras -- W-algebras and their representations -- Exact S-matrices -- to simple integrable models of quantum field theory -- to the coordinate-space bethe ansatz and to the treatment of bethe ansatz equations -- Thermodynamical bethe ansatz and condensed matter.
	Sommario/riassunto	In the last few years we have witnessed an upsurge of interest in exactly solvable quantum field theoretical models in many branches of theoretical physics ranging from mathematical physics through high-energy physics to solid states. This book contains six pedagogically

written articles meant as an introduction for graduate students to this fascinating area of mathematical physics. It leads them to the front line of present-day research. The topics include conformal field theory and W algebras, the special features of 2d scattering theory as embodied in the exact S matrices and the form factor studies built on them, the Yang--Baxter equations, and the various aspects of the Bethe Ansatz systems.