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Soggetti	Nonassociative rings
	Rings (Algebra)
	Mathematical physics
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	Non-associative Rings and Algebras
	Mathematical Physics
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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Nota di contenuto	Part I Lecture notes 1 Introduction to vertex algebras, Poisson vertex algebras, and integrable Hamiltonian PDE 2 An introduction to algebras of chiral differential operators 3 Representations of Lie Superalgebras 4 Introduction toW-algebras and their representation theory. Part II Contributed papers 5 Representations of the framisation of the Temperley–Lieb algebra 6 Some semi-direct products with free algebras of symmetric invariants 7 On extensions of affine vertex algebras at half-integer levels 8 Dirac cohomology in representation theory 9 Superconformal Vertex Algebras and Jacobi Forms 10 Centralizers of nilpotent elements and related problems 11 Pluri-Canonical Models of Supersymmetric Curves 12 Report on the Broué-Malle-Rouquier conjectures 13 A generalization of the Davis-Januszkiewicz construction 14 Restrictions of free arrangements and the division theorem 15 The pure braid groups and their relatives 16 Homological

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	representations of braid groups and the space of conformal blocks 17 Totally nonnegative matrices, quantum matrices and back, via Poisson geometry.
Sommario/riassunto	Lie theory is a mathematical framework for encoding the concept of symmetries of a problem, and was the central theme of an INdAM intensive research period at the Centro de Giorgi in Pisa, Italy, in the academic year 2014-2015. This book gathers the key outcomes of this period, addressing topics such as: structure and representation theory of vertex algebras, Lie algebras and superalgebras, as well as hyperplane arrangements with different approaches, ranging from geometry and topology to combinatorics.