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Nota di contenuto	Linear and nonlinear supersymmetries -- Covariant harmonic supergravity for N=2 super Yang-Mills theories -- Rigid N=2 superconformal hypermultiplets -- Ectoplasm has no topology: The prelude -- From supergravity to ballbearings -- On harmonic superspace -- Harmonic approach and quaternionic Taub-NUT metric -- Supergeometry in equivariant cohomology -- Harmonics, notophs and chiral bosons -- 3-Point functions in N=4 Yang-Mills in harmonic superspace -- Harmonic superspaces for three-dimensional theories -- The Neveu-Schwarz five-brane and its dual geometries -- Superembedding approach and generalized action in string/M-theory -- Domain walls and spacetime-filling branes -- The quantum geometry of branes -- String action on adS space -- Making manifest the symmetry enhancement for coinciding BPS branes -- On some stability properties of compactified D=11 supermembranes -- U-

duality and M-theory cosmology -- Brane scattering and supersymmetric \mathbb{Z} -model geometries -- Graviton scattering in eleven-dimensional supergravity -- Nilpotent marsh and SUSY QM -- On superconformal-like transformations and their nonlinear realization -- $N=2$ SUSY two-boson KP hierarchy, (derivative) NLS equation and miura transformations -- Third family of $N=2$ supersymmetric KdV hierarchies -- Integrals of motion, supersymmetric quantum mechanics and dynamical supersymmetry -- From LG to a butterfly resolution of unitary $N=2$ representations -- Super-affine hierarchies and their Poisson embeddings -- 1+1 Dimensional models of dilation gravity coupled to bosons and fermions -- Finite-size energy levels of the superintegrable chiral potts model -- Characteristic polynomials for quantum matrices -- Arbitrary spin massless bosonic fields in d -dimensional anti-de sitter space -- Direct mode summation for the Casimir energy of spherical shell and compact ball -- On different BRST constructions for a given Lie algebra -- Higher-spin gauge theories -- Integrability versus locality -- Global quantum anomaly -- Non-commutative space-time algebra and the spectrum of its operators -- Spinors in gravitation theory -- The notoph and its possible interactions -- Infinite-dimensional algebra of general covariance group as the closure of finite-dimensional algebras of conformal and linear groups -- Theory of dynamical affine and conformal symmetries as the theory of the gravitational field -- Structure of the supergravity group -- Grassmann analyticity and extension of supersymmetry -- Harmonic superspace: key to $N=2$ supersymmetry theories -- $N=3$ supersymmetric gauge theory -- Super-self-duality as analyticity in harmonic superspace -- List of main publications of V.I. Ogievetsky.

Sommario/riassunto

This book is a collection of papers in honour of Victor I. Ogievetsky. It contains reviews on supersymmetry and supergravity, dualities, integrable systems, W (super)algebras and quantum symmetries. The reader will also find reprints of some of Ogievetsky's pioneering work on supersymmetry.
