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Note generali	"This is the first volume in a series of books on the general theme of Supersymmetric Mechanics, which are based on lectures and discussions held in 2005 and 2006 at the INFN-Laboratori Nazionali di Frascati"--Preface.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	A Journey Through Garden Algebras -- Supersymmetric Mechanics in Superspace -- Noncommutative Mechanics, Landau Levels, Twistors, and Yang–Mills Amplitudes -- Elements of (Super-)Hamiltonian Formalism -- Matrix Models.
Sommario/riassunto	This is the first volume in a series of books on the general theme of Supersymmetric Mechanics; the series is based on lectures and discussions held in 2005 and 2006 at the INFN-Laboratori Nazionali di Frascati. The selected topics include supersymmetry and supergravity, the attractor mechanism, black holes, noncommutative mechanics, super-Hamiltonian formalism and matrix models. All lectures are intended for beginners at the graduate level and nonspecialists from related fields of research and a substantial effort was made to incorporate in the extensive write-ups the results of the animated discussion sessions which followed the individual lectures. A second volume appears as Lecture Notes Physics, Vol. 701 "Supersymmetric Mechanics - Vol. 2 : The Attractor Mechanism" (2006), ISBN: 3-540-

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