1.	Record Nr.	UNISALENTO991003790309707536
	Autore	OECD Nuclear Energy Agency
	Titolo	Nuclear legislation : analytical study : regulatory and institutional framework for nuclear activities
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	Lingua di pubblicazione	Inglese
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	Autore	Lesfari Ahmed
	Titolo	Integrable systems / / Ahmed Lesfari
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	Descrizione fisica	1 online resource (332 pages)
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	Nota di contenuto	Cover -- Half-Title Page -- Dedication -- Title Page -- Copyright Page -- Contents -- Preface -- Chapter 1. Symplectic Manifolds -- 1.1. Introduction -- 1.2. Symplectic vector spaces -- 1.3. Symplectic manifolds -- 1.4. Vectors fields and flows -- 1.5. The Darboux theorem -- 1.6. Poisson brackets and Hamiltonian systems -- 1.7. Examples -- 1.8. Coadjoint orbits and their symplectic structures -- 1.9. Application to the group SO(n) -- 1.9.1. Application to the group SO(3) -- 1.9.2. Application to the group SO(4) -- 1.10. Exercises -- Chapter 2. Hamilton-Jacobi Theory -- 2.1. Euler-Lagrange equation -- 2.2. Legendre transformation -- 2.3. Hamilton's canonical equations -- 2.4. Canonical transformations -- 2.5. Hamilton-Jacobi equation -- 2.6. Applications -- 2.6.1. Harmonic oscillator -- 2.6.2. The Kepler problem -- 2.6.3. Simple pendulum -- 2.7. Exercises -- Chapter 3. Integrable Systems -- 3.1. Hamiltonian systems and Arnold-Liouville theorem -- 3.2. Rotation of a rigid body about a fixed point -- 3.2.1. The Euler problem of a rigid body -- 3.2.2. The Lagrange top -- 3.2.3. The Kowalewski spinning top -- 3.2.4. Special cases -- 3.3. Motion of a solid through ideal fluid -- 3.3.1. Clebsch's case -- 3.3.2. Lyapunov-Steklov's case -- 3.4. Yang-Mills field with gauge group SU(2) -- 3.5. Appendix (geodesic flow and Euler-Arnold equations) -- 3.6. Exercises -- Chapter 4. Spectral Methods for Solving Integrable Systems -- 4.1.

Sommario/riassunto

This book illustrates the powerful interplay between topological, algebraic and complex analytical methods, within the field of integrable systems, by addressing several theoretical and practical aspects. Contemporary integrability results, discovered in the last few decades, are used within different areas of mathematics and physics. Integrable Systems incorporates numerous concrete examples and exercises, and covers a wealth of essential material, using a concise yet instructive approach. This book is intended for a broad audience, ranging from mathematicians and physicists to students pursuing graduate, Masters or further degrees in mathematics and mathematical physics. It also serves as an excellent guide to more advanced and detailed reading in this fundamental area of both classical and contemporary mathematics.