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| Nota di contenuto | Frontmatter -- Contents -- Introduction -- The Creators of Rigid Body Dynamics -- 1. Rigid Body Equations of Motion and Their Integration -- 2. The Euler - Poisson Equations and Their Generalizations -- 3. The Kirchhoff Equations and Related Problems of Rigid Body Dynamics -- 4. |

Linear Integrals and Reduction -- 5. Generalizations of Integrability Cases. Explicit Integration -- 6. Periodic Solutions, Nonintegrability, and Transition to Chaos -- A. Derivation of the Kirchhoff, Poincaré - Zhukovskii, and Four-Dimensional Top Equations -- B. The Lie Algebra $e(4)$ and Its Orbits -- C. Quaternion Equations and L-A Pair for the Generalized Goryachev - Chaplygin Top -- D. The Hess Case and Quantization of the Rotation Number -- E. Ferromagnetic Dynamics in a Magnetic Field -- F. The Landau - Lifshitz Equation, Discrete Systems, and the Neumann Problem -- G. Dynamics of Tops and Material Points on Spheres and Ellipsoids -- H. On the Motion of a Heavy Rigid Body in an Ideal Fluid with Circulation -- I. The Hamiltonian Dynamics of Self-gravitating Fluid and Gas Ellipsoids -- Bibliography -- Index of Names -- Index

Sommario/riassunto

This book provides an up-to-date overview of results in rigid body dynamics, including material concerned with the analysis of nonintegrability and chaotic behavior in various related problems. The wealth of topics covered makes it a practical reference for researchers and graduate students in mathematics, physics and mechanics.

Contents

- Rigid Body Equations of Motion and Their Integration
- The Euler - Poisson Equations and Their Generalizations
- The Kirchhoff Equations and Related Problems of Rigid Body Dynamics
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- Cases. Explicit Integration
- Periodic Solutions, Nonintegrability, and Transition to Chaos
- Appendix A : Derivation of the Kirchhoff, Poincaré - Zhukovskii, and Four-Dimensional Top Equations
- Appendix B: The Lie Algebra $e(4)$ and Its Orbits
- Appendix C: Quaternion Equations and L-A Pair for the Generalized Goryachev - Chaplygin Top
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- Appendix E: Ferromagnetic Dynamics in a Magnetic Field
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