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Titolo	Tides in Astronomy and Astrophysics [[electronic resource] /] / edited by Jean Souchay, Stéphane Mathis, Tadashi Tokieda
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Descrizione fisica	1 online resource (XII, 375 p. 138 illus., 60 illus. in color.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 861
Disciplina	521/.1
Soggetti	Astrophysics Gravitation Physics Astrophysics and Astroparticles Classical and Quantum Gravitation, Relativity Theory History and Philosophical Foundations of Physics
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Tides: A Tutorial -- Investigations of Tides From the Antiquity to Laplace -- Ocean Tides -- Precession and Nutation of the Earth -- Tidal Effects of Giant Planets on their Satellites -- Recent Developments in Planet Migration Theory -- Tides in Planetary Systems -- Stellar Tides -- Tides in Colliding Galaxies.
Sommario/riassunto	Based on the lecture notes of a school titled 'Tides in Astronomy and Astrophysics' that brought together students and researchers, this book focuses on the fundamental theories of tides at different scales of the universe—from tiny satellites to whole galaxies—and on the most recent developments. It also attempts to place the study of tides in a historical perspective. Starting with a general tutorial on tides, the theme of tides is approached in 9 chapters from many directions. They allow non-experts to pick up a physical intuition and a sense of orders of magnitude in the theory of tides. These carefully prepared lecture notes by leaders in the field include many illustrative figures and drawings. Some even offer a variety of simple back-of-the-envelope problems.

