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| Titolo                  | Tides in astronomy and astrophysics / / Jean Souchay, Stephane Mathis, Tadashi Tokieda, editors  |
| Pubbl/distr/stampa      | Heidelberg ; ; New York, : Springer, c2013   |
| ISBN                    | 3-642-32961-6  |
| Edizione                | [1st ed. 2013.]  |
| Descrizione fisica      | 1 online resource (XII, 375 p. 138 illus., 60 illus. in color.)  |
| Collana                 | Lecture notes in physics ; ; v. 861  |
| Altri autori (Persone)  | MathisStephane<br>SouchayJean<br>TokiedaTadashi <1968->  |
| Disciplina              | 551.464  |
| Soggetti                | Tides<br>Ocean circulation   |
| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Note generali           | Bibliographic Level Mode of Issuance: Monograph  |
| 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. |