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| Titolo                  | Dynamics of Small Solar System Bodies and Exoplanets [[electronic resource] /] / edited by Jean J. Souchay, Rudolf Dvorak                                                                                                                                                                                                                                                                                                                                                                       |
| Pubbl/distr/stampa      | Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2010                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Collana                 | Lecture Notes in Physics, , 0075-8450 ; ; 790                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Disciplina              | 523.24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Soggetti                | Planetology<br>Astrophysics<br>Physics<br>Space sciences<br>Dynamics<br>Ergodic theory<br>Astrophysics and Astroparticles<br>Mathematical Methods in Physics<br>Space Sciences (including Extraterrestrial Physics, Space Exploration and Astronautics)<br>Dynamical Systems and Ergodic Theory<br>Solar system                                                                                                                                                                                 |
| Lingua di pubblicazione | Inglese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| Note generali           | Bibliographic Level Mode of Issuance: Monograph                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Nota di bibliografia    | Includes bibliographical references and index.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Nota di contenuto       | Resonances: Models and Captures -- The Lyapunov Characteristic Exponents and Their Computation -- Asteroid Dynamical Families -- An Introduction to the Dynamics of Trojan Asteroids -- The Physics of Asteroids and Their Junction with Dynamics -- The Gaia Mission and the Asteroids -- Cometary Dynamics -- Dynamical Features of the Oort Cloud Comets -- An Introduction to Common Numerical Integration Codes Used in Dynamical Astronomy -- Dynamical Stability of Extra-Solar Planets. |

This book offers an up-to-date overview of current research on Dynamics of Small Solar System Bodies and Exoplanets. In course-tested extensive chapters the authors cover topics of theoretical celestial mechanics, physics and dynamics of asteroids, comets, stability of exoplanets and numerical integration codes applied in dynamical astronomy.

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