



Dynamics of Small Solar System Bodies and Exoplanets

By Rudolf Dvorak

Springer-Verlag GmbH Mrz 2010, 2010. Buch. Book Condition: Neu. 235x155x37 mm. Neuware - This book on recent investigations of the dynamics of celestial bodies in the solar and extra-Solar System is based on the elaborated lecture notes of a thematic school on the topic, held as a result of cooperation between the SYRTE Department of Paris Observatory and the section of astronomy of the Vienna University. Each chapter corresponds to a lecture of several hours given by its author(s). The book therefore represents a necessary and very precious document for teachers, students, and researchers in the field. The first two chapters by A. Lemaître and H. Skokos deal with standard topics of celestial mechanics: the first one explains the basic principles of resonances in mechanics and their studies in the case of the Solar System. The differences between the various cases of resonance (mean motion, secular, etc.) are emphasized together with resonant effects on celestial bodies moving around the Sun. The second one deals with approximative methods of describing chaos. These methods, some of them being classical, as the Lyapounov exponents, other ones being developed in the very recent past, are explained in full detail. The second one...



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