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AN *INTRODUCTION* TO
**CELESTIAL
MECHANICS**

An Introduction To Celestial Mechanics

Elena Bannikova, Massimo Capaccioli

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Introduction to Celestial Mechanics Sidney Wilcox McCuskey, 1963 **Foundations of Celestial Mechanics** Elena Bannikova, Massimo Capaccioli, 2022-12-02 This book provides an introduction to classical celestial mechanics. It is based on lectures delivered by the authors over many years at both Padua University MC and V N Karazin Kharkiv National University EB. The book aims to provide a mathematical description of the gravitational interaction of celestial bodies. The approach to the problem is purely formal. It allows the authors to write equations of motion and solve them to the greatest degree possible either exactly or by approximate techniques when there is no other way. The results obtained provide predictions that can be compared with the observations. Five chapters are supplemented by appendices that review certain mathematical tools, deepen some questions so as not to interrupt the logic of the mainframe with heavy technicalities, give some examples and provide an overview of special functions useful here as well as in many other fields of physics. The authors also present the original investigation of torus potential. This book is aimed at senior undergraduate students of physics or astrophysics as well as graduate students undertaking a master's degree or Ph D.

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