

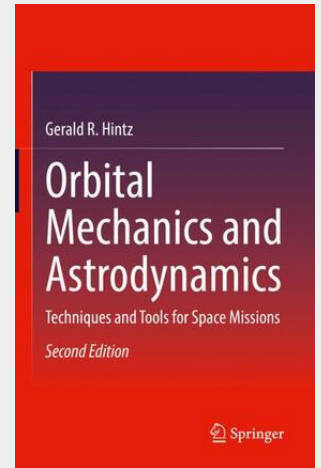
Hintz

Orbital Mechanics and Astrodynamics

Techniques and Tools for Space Missions

Now in an updated second edition, this classroom-tested textbook covers fundamental and advanced topics in orbital mechanics and astrodynamics designed to introduce readers to the basic dynamics of space flight. The book explains concepts and engineering tools a student or practicing engineer can apply to mission design and navigation of space missions. Through highlighting basic, analytic, and computer-based methods for designing interplanetary and orbital trajectories, the text provides excellent insight into astronomical techniques and tools. The second edition includes new material on the observational basics of orbit determination, information about precision calculations for data used in flight, such as Mars 2020 with the Ingenuity Helicopter, and improvements in mission design procedures, including the automated design of gravity-assist trajectories. Orbital Mechanics and Astrodynamics: Techniques and Tools for Space Missions is ideal for students in astronomical or aerospace engineering and related fields, as well as engineers and researchers in space industrial and governmental research and development facilities, as well as researchers in astronautics.

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117,69 €
109,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783030965723

Medium: Buch

ISBN: 978-3-030-96572-3

Verlag: Springer International Publishing

Erscheinungstermin: 12.01.2023

Sprache(n): Englisch

Auflage: 2. Auflage 2022

Produktform: Gebunden

Gewicht: 962 g

Seiten: 448

Format (B x H): 160 x 241 mm

