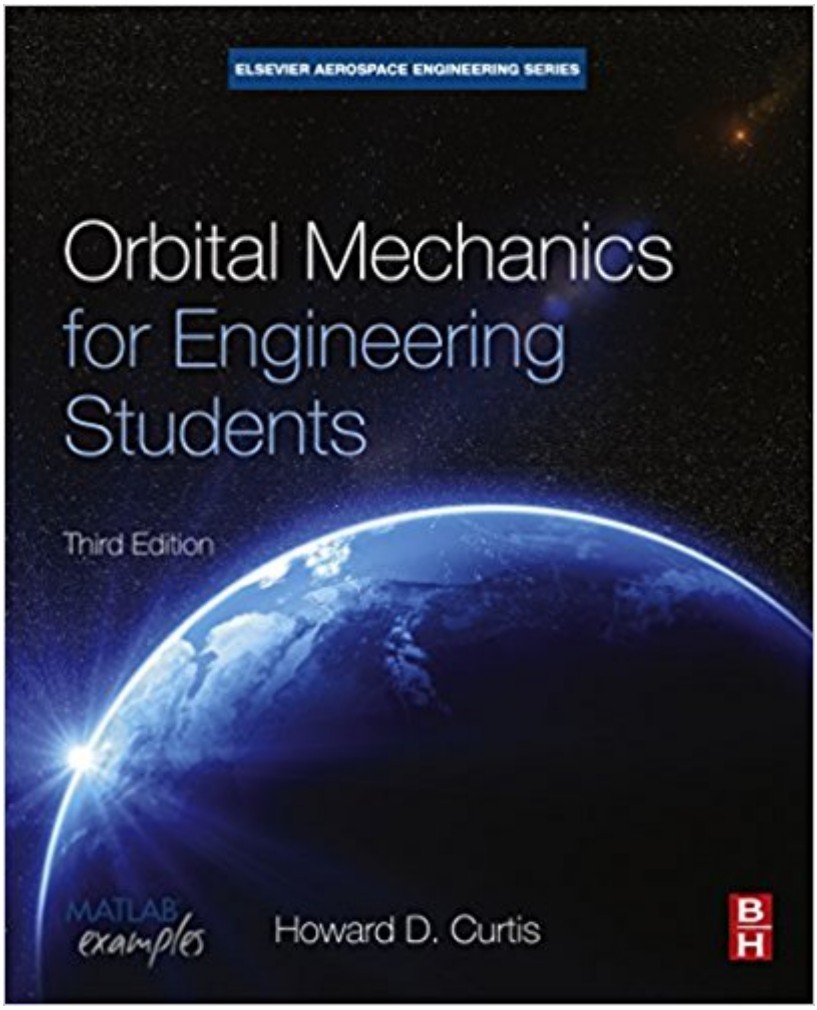
Orbital Mechanics For Engineering Students (Aerospace Engineering)



Synopsis

Written by Howard Curtis, Professor of Aerospace Engineering at Embry-Riddle University, Orbital Mechanics for Engineering Students is a crucial text for students of aerospace engineering. Now in its 3e, the book has been brought up-to-date with new topics, key terms, homework exercises, and fully worked examples. Highly illustrated and fully supported with downloadable MATLAB algorithms for project and practical work, this book provides all the tools needed to fully understand the subject.New chapter on orbital perturbationsNew and revised examples and homework problemsIncreased coverage of attitude dynamics, including new MATLAB algorithms and examples

Book Information

File Size: 138024 KB

Print Length: 768 pages

Publisher: Butterworth-Heinemann; 3 edition (October 5, 2013)

Publication Date: October 5, 2013

Sold by:Â Digital Services LLC

Language: English

ASIN: B00G9855R0

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #140,552 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #3 inÂ Kindle Store > Kindle eBooks > Nonfiction > Science > Physics > Dynamics > Aerodynamics #18 inÂ Books > Engineering & Transportation > Engineering > Aerospace > Aerodynamics #48 inÂ Kindle Store > Kindle eBooks > Nonfiction > Science > Astronomy & Space Science > Aeronautics & Astronautics

Customer Reviews

As a student of aerospace engineering, I took a class in orbital mechanics - a truly fascinating subject. Like many others at the time, I was exposed to "Fundamentals of Astrodynamics" by Bate et al. As far as I know, people thought it was the best text available. However, it is no match for Curtis' book. Comparing the two made me somewhat envious of today's student. Orbital Mechanics

offers great clarity, great solved examples, and surprising depth, considering it is an undergraduate text. To me clarity is of the essence and, to me, nothing provides more clarity than worked out examples, in particular if they involve realistic scenarios. For instance, one of the examples of this nature provides a step-by-step approach to determine the orbit of an asteroid from two observations. A great book I recommend to anyone studying orbital mechanics.

The book itself has decent quality. However, in the Kindle version, all the equations are scanned images in low resolution. This combines with the blackboard bold font make it impossible to read pixilated equations.

My Astrodynamics class used the classic by Bate due to the very low cost. However, because the book we used was last updated a looooooong time ago (there were references to the Soviets everywhere...which just made me feel old...), this book made for an excellent companion. The included MATLAB codes, especially for the classic orbital elements, were outstanding, and the flow of the book mostly matched how my class progressed as well. Highly recommended.

Software cd was not included

Very Good

The book content is excellent. The depth and breadth of material is fantastic. The use of color in diagrams and examples helps a lot. will send you a black and white, print on demand copy of the original color version, which means you won’t get the experience intended by the author and publisher. I returned my copy for that reason.

This book is riddled with typos and is MISSING THE ENTIRE APPENDIX D. How can you make such a terrible print error? Unbelievable. Had to use older edition for appendix D. Literally skips from C to E in the back of the book, never seen anything like it, in a professional book nonetheless.

My dorky husband likes to read this in his spare time. The copy we got did not have color images in it, however, as it must be a reproduction.

Orbital Mechanics for Engineering Students, Third Edition (Aerospace Engineering) Orbital

Mechanics for Engineering Students (Aerospace Engineering) Orbital Mechanics for Engineering Students, Second Edition (Aerospace Engineering) Theory of Aerospace Propulsion, Second Edition (Aerospace Engineering) Theory of Aerospace Propulsion (Aerospace Engineering) Aircraft Structures for Engineering Students, Fifth Edition (Elsevier Aerospace Engineering) Aircraft Structures for Engineering Students (Elsevier Aerospace Engineering) Aircraft Structures for Engineering Students, Fourth Edition (Elsevier Aerospace Engineering) Orbital Mechanics Descender Volume 4: Orbital Mechanics Mechanics of Composite Materials, Second Edition (Mechanical and Aerospace Engineering Series) Engineering Mechanics: Statics Plus MasteringEngineering with Pearson eText -- Access Card Package (14th Edition) (Hibbeler, The Engineering Mechanics: Statics & Dynamics Series, 14th Edition) Reinforced Concrete: Mechanics and Design (4th Edition) (Civil Engineering and Engineering Mechanics) Fracture and Fatigue Control in Structures: Applications of Fracture Mechanics (Prentice-Hall International Series in Civil Engineering and Engineering Mechanics) Modern Compressible Flow: With Historical Perspective. John D. Anderson, JR (Asia Higher Education Engineering/Computer Science Aerospace Engineering) Amazing Feats of Aerospace Engineering (Great Achievements in Engineering) Mechanics and Thermodynamics of Propulsion (Addison-Wesley Series in Aerospace Science) Structural Analysis: With Applications to Aerospace Structures (Solid Mechanics and Its Applications) Biofluid Mechanics, Second Edition: An Introduction to Fluid Mechanics, Macrocirculation, and Microcirculation (Biomedical Engineering) Probabilistic fracture mechanics and reliability (Engineering Applications of Fracture Mechanics)