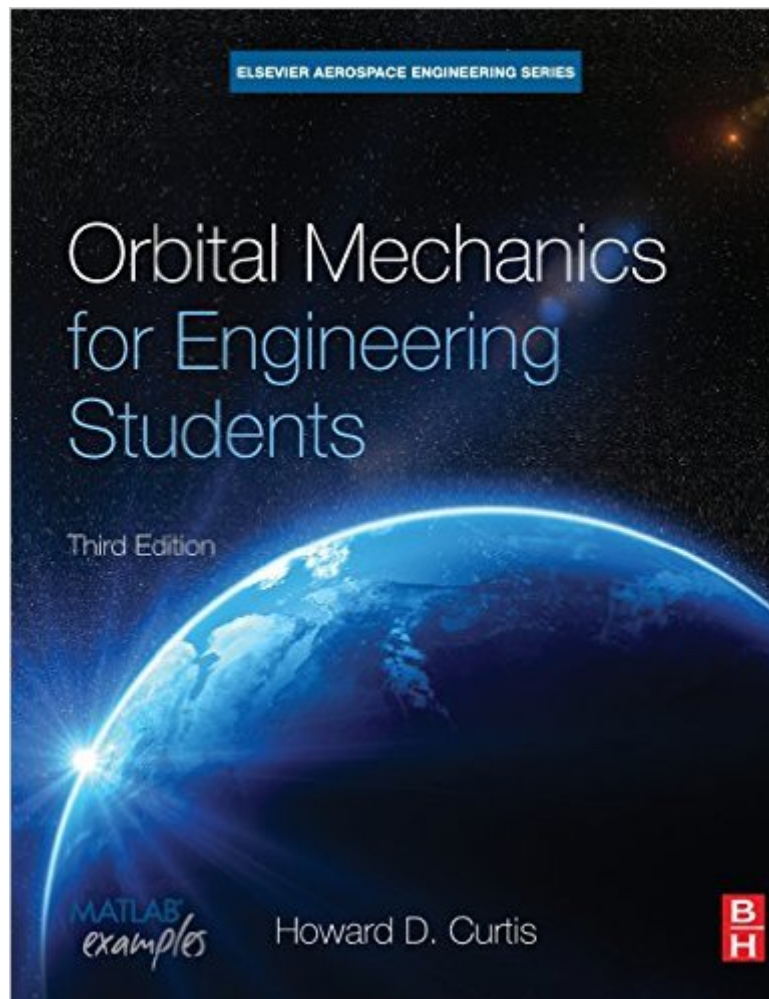# Orbital Mechanics For Engineering Students, Third Edition (Aerospace Engineering)

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

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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.

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 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.

All in-text equations are nearly illegible and many are completely so making the kindle version nearly useless. Certainly not worth the purchase price.

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) Energy Audit of Building Systems: An Engineering Approach, Second Edition (Mechanical and Aerospace Engineering Series) Aircraft Engineering Principles, 2nd ed (Taylor & Francis Aerospace and Aviation Engineering) Fundamentals of Aerodynamics (Mcgraw-Hill Series in Aeronautical and Aerospace Engineering) Applied Computational Aerodynamics: A Modern Engineering Approach (Cambridge Aerospace Series) Guide for Reusable Software: Assessment Criteria for Aerospace

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