



# Satellite Orbits: Models, Methods and Applications

*By Oliver Montenbruck, Eberhard Gill*

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This modern presentation guides readers through the theory and practice of satellite orbit prediction and determination. Starting from the basic principles of orbital mechanics, it covers elaborate force models as well as precise methods of satellite tracking. The result is a powerful and unique spaceflight dynamics library, which allows users to easily create software extensions. An extensive collection of frequently updated Internet resources is provided through WWW hyperlinks.

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**Bibliography**

- Sales Rank: #410098 in Books
- Brand: Brand: Springer
- Published on: 2011-09-02
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x .88" w x 6.14" l, 1.79 pounds
- Binding: Hardcover
- 369 pages

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#### Review

From the reviews: "Not many books on the topic of satellite orbits over the past decades have been informative, comprehensive and practical. I am happy to say that this publication does fall into that category. [...] This book should certainly be in the library of students and scientists working in the fields of navigation, geodesy, and spaceflight technology, as well as satellite engineers and operators focusing on spaceflight dynamics." (The Observatory, 2001) "Satellite Orbits: Models, Methods, and Application would be a valuable addition to the library of any engineer or scientist interested in the practical aspects of orbit prediction and determination. [...]" (Applied Mechanics Reviews, 2002)

#### From the Back Cover

This is a modern textbook that guides the reader through the theory and practice of satellite orbit prediction and determination. Starting from basic principles of orbital mechanics, it covers elaborate force models as well as precise methods of satellite tracking. Emphasis is on numerical treatment and a multitude of algorithms adopted in modern satellite trajectory computation are described in detail. These programs are built around a powerful spaceflight dynamics library well suited to the development of individual applications. An extensive collection of Internet resources is provided through WWW hyperlinks to detailed and frequently updated online information on spaceflight dynamics. The book addresses students and scientists working in the field of navigation, geodesy and spaceflight technology, as well as satellite engineers and operators focusing on spaceflight dynamics.

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