



Adventures in Celestial Mechanics

By Victor G. Szebehely, Hans Mark

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A fascinating introduction to the basic principles of orbital mechanics

It has been three hundred years since Isaac Newton first formulated laws to explain the orbits of the Moon and the planets of our solar system. In so doing he laid the groundwork for modern science's understanding of the workings of the cosmos and helped pave the way to the age of space exploration.

Adventures in Celestial Mechanics offers students an enjoyable way to become acquainted with the basic principles involved in the motions of natural and human-made bodies in space. Packed with examples in which these principles are applied to everything from a falling stone to the Sun, from space probes to galaxies, this updated and revised Second Edition is an ideal introduction to celestial mechanics for students of astronomy, physics, and aerospace engineering. Other features that helped make the first edition of this book the text of choice in colleges and universities across North America include:

- * Lively historical accounts of important discoveries in celestial mechanics and the men and women who made them
- * Superb illustrations, photographs, charts, and tables
- * Helpful chapter-end examples and problem sets

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Editorial Review

From the Publisher

We are taken on a trip through time and "space" to visit some of the greatest philosophers, scientists and mathematicians who helped "create" this universe. Considered the oldest field in "modern science," this text on celestial mechanics covers many topics such as the discovery, development and behavior of the universe, the development of the calendar, Newton's Laws of dynamics and law of gravity, and recent developments in artificial satellite and spacecraft technology. This book offers students an enjoyable way to become acquainted with the basic principles involved in the motions of natural and human-made bodies in space.

From the Back Cover

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About the Author

VICTOR G. SZEBEHELY, DEng, PhD(1921-1997), was Professor and former chairman of the Aerospace Engineering and Engineering Mechanics Department of the University of Texas at Austin. He served as a consultant to the U.S. Air Force Space Command. HANS MARK, PhD, is Professor in the Aerospace Engineering and Engineering Mechanics Department of the University of Texas at Austin. His other books include *The Space Station: A Personal Journey*. He serves as a consultant to NASA.

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