

Understanding Space : An Introduction to Astronautics

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This is an introductory text in astronautics. It contains historical background and a discussion of space missions, space environment, orbits, atmospheric entry, spacecraft design, spacecraft subsystems, and space operations. It features section reviews summarizing key concepts, terms, and equations, and is extensively illustrated with many photos, figures, and examples Space law, politics,and economics This is a truly user-friendly, full-color text focused on understanding concepts and practical applications but written in a down-to-earth, engaging manner that painlessly helps you understand complex topics. It is laid out with multi-color highlights for key terms and ideas, reinforced with detailed example problems, and supported by detailed section reviews summarizing key concepts, terms, and equations.

Inside this new second edition, you'll find:

Space missions

History of space

Orbits and interplanetary trajectories

Atmospheric re-entry

Space system engineering

Spacecraft subsystems

Space operations and support

Economics of space

Satellite communications

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An excellent primer for the serious space enthusiast. The reader will need more than a passing familiarity with algebraic concepts, but this book is written in textbook format -- what the heck, it IS a textbook! If anyone ever planned to launch a satellite from their own backyard, this is the book that will guide them. Want to be an engineer-physicist? Want to be an astronaut? This is the book for you

Other Books

Nanorobotics, Nanorobots can be defined as intelligent systems with overall dimensions at or below the micrometer range that are made of assemblies of nanoscale components with individual dimensions ranging between 1 to 100 nm. These devices can now perform a wide variety of tasks at the nanoscale in a wide variety of fields including but not limited to fields such as manufacturing, medicine, supply chain, biology, and aerospace.

Nanorobotics: Current Approaches and Techniques offers a comprehensive overview of this emerging interdisciplinary field with a wide ranging discussion that includes nano-manipulation and industrial nanorobotics, nanorobotic manipulation in biology and medicine, nanorobotic sensing, navigation and swarm behavior and CNT, and protein and DNA-based nanorobotics.

IEEE Trans Nucl Sci 54(6):2463–2467. doi:10.1109/TNS.2007.910040 Sellers J J (2005) Understanding space – an introduction to astronautics , 3rd edn. McGraw-Hill, New York Sundaram S, Tonnen M, Timotjjevic B, Lockhart R et al (2011) ..."