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Orbital Mechanics for Engineering Students

Third Edition

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Howard D. Curtis



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Orbital Mechanics For Engineering Students Solutions Manual

**Steven H. Collicott, Daniel T.
Valentine, E. L. Houghton, P. W.
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maneuvers The book also covers relative motion and the two impulse rendezvous problem interplanetary mission design using patched conics rigid body dynamics used to characterize the attitude of a space vehicle satellite attitude dynamics and the characteristics and design of multi stage launch vehicles Each chapter begins with an outline of key concepts and concludes with problems that are based on the material covered This text is written for undergraduates who are studying orbital mechanics for the first time and have completed courses in physics dynamics and mathematics including differential equations and applied linear algebra Graduate students researchers and experienced practitioners will also find useful review materials in the book NEW Reorganized and improved discussions of coordinate systems new discussion on perturbations and quaternions NEW Increased coverage of attitude dynamics including new Matlab algorithms and examples in chapter 10 New examples and homework problems **Choice** ,2005 **Resources in Education** ,1982

Scientific and Technical Books in Print ,1972 **AAPT Announcer** American Association of Physics Teachers,1987

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