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Chapter 11 is optional if the engineering curriculum requires a separate course in propulsion, including rocket dynamics. Finally, Chapter 12 is appropriate for a course devoted exclusively to orbital mechanics with an introduction to perturbations, which is a whole topic unto itself. The important topic of spacecraft control systems is omitted.

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Orbital Mechanics and Space Geometry

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These are notes for a course in orbital mechanics catalogued as Aerospace Engineering 313 at New Mexico Tech and Aerospace Engineering 362 at New Mexico State University. This course uses the text "Fundamentals of Astrodynamics" by R.R. Bate, D. D. Muller, and J. E. White, published by Dover Publications, New York, copyright 1971.

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Professor Curtis is former professor and department chair of Aerospace Engineering at Embry-Riddle Aeronautical University. He is a licensed professional engineer and is the author of two textbooks (Orbital Mechanics 3e, Elsevier 2013, and Fundamentals of Aircraft Structural Analysis, McGraw Hill 1997).

Orbital Mechanics for Engineering Students - 2nd Edition

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MECH 5105 - Orbital Mechanics and Control S. Ulrich Winter 2015 Course Outline About the Author Steve Ulrich is an Assistant Professor at Carleton University. He earned his B.Eng. and M.A.Sc. in electrical engineering from the Universite de Sherbrooke, and his Ph.D. in aerospace engineering from Carleton University. From 2006 to 2008, he was ...

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Space Flight Mechanics - UL FGG

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