



# Fundamentals of Astrodynamics and Applications (Space Technology Library)

By D.A. Vallado

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This book is rapidly becoming the standard astrodynamics reference for those involved in spaceflight. The second edition contains new topics that include ground illumination calculations, Moon rise and set, and a listing of relevant Internet sites. There is an improved and expanded discussion of coordinate systems, orbit determination, and differential correction. All of the software routines described are now available for free in FORTRAN, PASCAL, and C.

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"The book deals with classical methods and techniques related to the unperturbed and perturbed two-body problem with applications to the motion of a spacecraft around the Earth. ... a book for the practicing engineer with some previous background in the field." (Gerard Gómez, Mathematical Reviews, Issue 2009 a)

"The third edition of this known reference and textbook consists of 11 chapters, 4 appendices and 75 algorithms. ... the book will be useful to students and postgraduate students, to ordinary teachers and professors in astronomy, classical mechanics, celestial mechanics and astrodynamics, as well as to all amateurs interesting in astronomy and astrodynamics." (Sergei Georgievich Zhuravlev, Zentralblatt MATH, Vol. 1191, 2010)

### **About the Author**

David Vallado is currently a Senior Research Astrodynamicist with Analytical Graphics, Inc. in Colorado Springs, Colorado. He holds a BS degree in Astrodynamics Engineering from the U.S. Air Force Academy and an MS from Air Force Institute of Technology. He also holds an MS in Systems Management from USC. He is a retired Air Force Lieutenant Colonel. His Air Force experience includes: Stage 1 Project Manager for MX missile, SAC Headquarters Analysis Division, U.S. Air Force instructor, Air Force Research Laboratory Scientist, and Headquarters U.S. Space Command Analysis Office. He has also worked as a principal engineer with Raytheon in Denver, Colorado.

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