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Autore	[Symposium held September 24-25, 2007 in Macao, China] : <2007
Titolo	Formal methods and hybrid real-time systems : essays in honour of Dines Bjørner and Zhou Chaochen on the occasion of their 70th birthdays : [symposium held September 24-25, 2007 in Macao, China] / Cliff B. Jones, Zhiming Liu, Jim Woodcock (Eds.)
Pubbl/distr/stampa	Berlin [etc.] : Springer 2007, copyr. 2007
ISBN	978-3-540-75220-2
Descrizione fisica	XVI, 538 p. : ill. ; 24 cm
Collana	Lecture notes in computer science , Festschrift ; 4700
Disciplina	004.33
Soggetti	Elaborazione in tempo reale - Congressi - Macao - 2007
Collocazione	001 LNCS 4700
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Autore	Liu Lin <1474-1561, >
Titolo	Algorithms for Satellite Orbital Dynamics / / by Lin Liu
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ISBN	981-19-4839-9
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (576 pages)
Collana	Springer Series in Astrophysics and Cosmology, , 2731-7358
Disciplina	069
Soggetti	Outer space - Exploration Astronautics Aerospace engineering Mathematical physics Astronomy Space Exploration and Astronautics Aerospace Technology and Astronautics Theoretical, Mathematical and Computational Physics Astronomy, Observations and Techniques
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Preface -- Introduction -- Chapter 1 Selection and Conversions of Coordinate System -- Chapter 2 Complete Solutions of the two-body Problem -- Chapter 3 Analytical methods of structural solutions for a perturbed satellite orbit -- Chapter 4 Non-singular point analytical solutions for a perturbed Earth’s satellite orbit by extrapolation -- Chapter 5 Design of satellite orbit and lifespan estimation -- Chapter 6 Orbital solutions of satellites of the Moon and major planets -- Chapter 7 Orbits in the restricted three-body problem and calculation methods -- Chapter 8 Numerical methods for satellite orbit extrapolation -- Chapter 9 Formulation of orbit determination and calculation of initial orbit -- Chapter 10 Determination of precession orbit -- Appendix.
Sommario/riassunto	This book highlights the fundamental physics of orbit theory, dynamical models, methods of orbit determination, design, measurement, adjustment, and complete calculations for the position, tracking, and prediction of satellites and deep spacecraft. It

emphasizes specific methods, related mathematical calculations, and worked examples and exercises. Therefore, technicians and engineers in the aerospace industry can directly apply them to their practical work. Dedicated to undergraduate students and graduate students, researchers, and professionals in astronomy, physics, space science, and related aerospace industries, the book is an integrated work based on the accumulated knowledge in satellite orbit dynamics and the author’s more than five decades of personal research and teaching experience in astronomy and aerospace dynamics.