

1. Record Nr.	UNINA9910437939803321
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Titolo	Orbits : 2nd order singularity-free solutions // Guochang Xu, Jia Xu
Pubbl/distr/stampa	Heidelberg, Germany, : Springer, c2013
ISBN	3-642-32793-1
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (443 p.)
Altri autori (Persone)	XuJia
Disciplina	910.02
Soggetti	Physical geography Satellites - Orbits Geography Mathematics Astrophysics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Coordinate and Time Systems -- Keplerian Orbits -- Perturbations on the Orbits -- Solutions of C20 Perturbation -- Solutions of Geopotential Perturbations -- Solutions of Extraterrestrial Disturbances -- Numerical Orbit Determination -- Analytic Orbit Determination -- Singularity-Free Theory and Discussions.
Sommario/riassunto	The development of the orbits theory lags behind the development of satellite technology. This book provides, for the first time in the history of human satellite development, the complete third order solution of the orbits under all possible disturbances. It describes the theory of satellite orbits, derives the complete solutions of the orbital disturbances, describes the algorithms of orbits determination based on the theory, describes the applications of the theory to the phenomenon of the satellite formation physically. The subjects include: Orbits Motion Equations, Disturbance theory, Solutions of the differential Equations, Algorithms of Orbits determinations, Applications of the theory to the satellite formation.