

1. Record Nr.	UNINA9910783513703321
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Titolo	Essential spaceflight dynamics and magnetospherics [[electronic resource] /] / by Boris V. Rauschenbakh, Michael Yu. Ovchinnikov, Susan McKenna-Lawlor
Pubbl/distr/stampa	Dordrecht ; ; Boston, : Kluwer Academic Publishers, c2003
ISBN	0-306-48027-1
Edizione	[1st ed. 2003.]
Descrizione fisica	1 online resource (XIV, 397 p.)
Collana	Space technology library ; ; 15
Altri autori (Persone)	OvchinnikovM. IU McKenna-LawlorSusan M. P
Disciplina	629.4/11
Soggetti	Astrodynamics Magnetosphere
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references (p. 299-301) and index.
Nota di contenuto	Unperturbed Orbital Motion. Two-Body Problem -- Qualitative Analysis of the Properties of Orbits -- Perturbed Motion -- Gravispheres -- Equations of Motion in Terms of Osculating Elements -- Braking of a SC in the Earth's Atmosphere -- Terrestrial Nonsphericity and SC Motion -- SC Motion in the Field of Two Attracting Centers -- Elements of SC Manoeuvring Theory -- Interplanetary Trajectory Corrections -- Rendezvous Manoeuvring -- Gravity-Assist Manoeuvre -- About Orbit Determination Using Measured Data -- to Attitude Control -- SC Affected by a Gravity-Gradient Torque -- SC Motion in a Circular Orbit -- SC Motion in an Elliptical Orbit -- A Spinning Axisymmetric SC in Circular Orbit -- Equilibrium of a Gyrostat -- SC Motion Affected by an Aerodynamic Torque -- SC Motion in the Geomagnetic Field -- Motion of a SC under Damping.
Sommario/riassunto	Essential Spaceflight Dynamics and Magnetospherics describes, in the first instance, some of the key aspects of celestial mechanics and spaceflight dynamics. It begins with classical two and three body problems illustrative of the aesthetic aspects of applying analytical methods of investigation to celestial mechanics. Then, osculating orbital elements are introduced as well as analysis techniques sufficient to evaluate the influence of various disturbing forces on spacecraft.

Next a theory of manoeuvres is outlined and the methodology of making interplanetary trajectory corrections. Ideas involving various approaches to orbital element determinations using measured data are also considered. The forces applied to a spacecraft can result in the development of torques that influence attitude motion and the effects of the most important of these are described in terms of equilibrium positions, periodic motions, steady-state and transient motions. Also considered is the problem of attitude control of a spacecraft using active and/or passive methods of orientation and stabilization. In addition, a more advanced treatment of the development of attitude control systems is provided.

2. Record Nr.	UNINA9910716422203321
Titolo	Amend and reenact Cotton Futures Act. January 27, 1927. -- Committed to the Committee of the Whole House on the State of the Union and ordered to be printed
Pubbl/distr/stampa	[Washington, D.C.] : , : [U.S. Government Printing Office], , 1927
Descrizione fisica	1 online resource (4 pages)
Collana	House report / 69th Congress, 2nd session. House ; ; no. 1881 [United States congressional serial set] ; ; [serial no. 8688]
Altri autori (Persone)	HaugenGilbert Nelson <1859-1933> (Republican (IA))
Soggetti	Agricultural prices Commodity exchanges Cotton Financial futures Legislative amendments Legislative materials.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Note generali	(69) H.R. 16470, Bill To Amend and Reenact an Act Entitled "United States Cotton Futures Act," Approved August 11, 1916, as Amended, Title page. Batch processed record: Metadata reviewed, not verified. Some fields updated by batch processes. FDLP item number not assigned.
