

1. Record Nr.	UNINA9910458578303321
Titolo	Dynamics of tethered space systems / / authors, A.P. Alpatov. [et al.]
Pubbl/distr/stampa	Boca Raton : , : Taylor & Francis, , 2010
ISBN	0-429-15228-0 1-282-90314-4 9786612903144 1-4398-3686-8
Descrizione fisica	1 online resource (246 p.)
Collana	Advances in engineering
Altri autori (Persone)	AlpatovA. P (Anatolii Petrovich)
Disciplina	629.43/4
Soggetti	Tethered space vehicles - Dynamics Electronic books.
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	Tethered systems in space : a short introduction ; Equations of motion of space tether systems ; Analysis of the motion of TSS ; Use of resonance for motion control ; Deployment of tethered space systems.
Sommario/riassunto	During many of the earliest American and Russian space missions, experiments were performed using cables to connect people and objects to spacecraft in orbit. These attempts generated considerable information about the formation of tethered systems and basic problems with tether orientation and gravity-gradient stabilization. During the 1970s, interest in tethered space systems (TSS) came to the forefront with an international project that involved the hanging of a probe from a low-orbit satellite to collect data on the Earth and its atmosphere. Since that time, TSS has grown to become its