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Several analytic and numerical models have been developed for tethered spacecraft. However, due to the complexities of tethered spacecraft, it is common practice to use simplified models. Two point masses connected by a rigid tether is considered in [5]. A massless, flexible tether dynamics is included in [6].

Geometric Numerical Integration for Complex Dynamics of

Geometric Numerical Integration for Complex Dynamics of Tethered Spacecraft Taeyoung Lee, Melvin Leoky, and N. Harris McClamroch Abstract "This paper presents an analytical model and a geometric numerical integrator for a tethered spacecraft model that is composed of two rigid bodies connected by an elastic tether.

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8 Chapter 1. Introduction. conformal dynamics which motivate this work appears in [Mc3]. Renormalization is a broad topic, many aspects of which we do not touch on here. An exposition of results of Branner, Hubbard and Yoccoz and their relation to complex renormalization appears in [Mil3].

Complex Dynamics and Renormalization

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