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this the fifth volume of five from the 28th imac on structural dynamics and renewable energy
2010 brings together 146 chapters on structural dynamics it presents early findings from
experimental and computational investigations of on a wide range of area within structural
dynamics including studies such as simulation and validation of ods measurements made
using a continuous sldv method on a beam excited by a pseudo random signal comparison of
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the book addresses the overall integrated design aspects of a space transportation system
involving several disciplines like propulsion vehicle structures aerodynamics flight mechanics
navigation guidance and control systems stage auxiliary systems thermal systems etc and
discusses the system approach for design trade off analysis system life cycle considerations
important aspects in mission management the risk assessment etc there are several books
authored to describe the design aspects of various areas viz propulsion aerodynamics
structures control etc but there is no book which presents space transportation system sts
design in an integrated manner this book attempts to fill this gap by addressing systems
approach for sts design highlighting the integrated design aspects interactions between
various subsystems and interdependencies the main focus is towards the complex integrated
design to arrive at an optimum robust and cost effective space transportation system the

orbital mechanics of satellites including different coordinate frames orbital perturbations and orbital transfers are explained for launching the satellites to meet specific mission requirements viz payload orbit design considerations giving step by step procedure are briefed the selection methodology for launch vehicle configuration its optimum staging and the factors which influence the vehicle performance are summarized the influence of external internal and dynamic operating environments experienced by the vehicle subsystems and the remedial measures needed are highlighted the mission design strategies and their influence on the vehicle design process are elaborated the various critical aspects of sts subsystems like flight mechanics propulsion structures and materials thermal systems stage auxiliary systems navigation guidance and control and the interdependencies and interactions between them are covered the design guidelines complexity of the flight environment and the reentry dynamics for the reentry missions are included the book is not targeted as a design tool for any particular discipline or subsystem some of the design related equations or expressions are not attempted to derive from the first principle as this is beyond the scope of this book however the important analytical expressions graphs and sketches which are essential to provide in depth understanding for the design process as well as to understand the interactions between different subsystems are appropriately included

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