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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 image based laser and accelerometer measurements modal parameter estimation using acoustic modal analysis mitigation of vortex induced vibrations in long span bridges and vibration and acoustic analysis of brake pads for quality control

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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the code of federal regulations title 14 contains the codified federal laws and regulations that are in effect as of the date of the publication pertaining to aeronautics air transportation aviation including large and small aircraft such as commercial airplanes helicopters balloons and gliders and space exploration including areas overseen by the faa and nasa

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