
SPACECRAFT STRUCTURES AND MECHANISMS

From Concept to Launch

Thomas P. Sarafin (editor)



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Rick Fleeter



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Spacecraft Structures and Mechanisms Thomas P. Sarafin, 1995-05-31 Spacecraft Structures and Mechanisms describes the integral process of developing cost effective reliable structures and mechanical products for space programs Processes are defined methods are described and examples are given It has been written by 24 engineers in the space industry who cover the themes of 1 ensuring a successful mission and 2 reducing total cost through good designs and intelligent risk management Topics include Introduction and requirements development process requirements documentation requirements definition space mission environments Analysis statics dynamics and load analysis fatigue and fracture mechanics mechanics of materials strength analysis heat transfer and thermal effects Verification and quality assurance verification planning structural mechanical and environmental testing quality assurance and configuration control compliance documentation structural reliability analysis verification criteria factors of safety margins of safety fracture control test options Design spacecraft configuration development finite element analysis mechanism development designing for producibility structural design materials designing to control loads load cycles sensitivity analysis Final verification model correlation risk management launch readiness reviews For system engineers mechanical designers stress analysts dynamics and load analysts technical leads program managers

Spacecraft Systems Engineering Peter Fortescue, Graham Swinerd, John Stark, 2011-09-19 This fourth edition of the bestselling Spacecraft Systems Engineering title provides the reader with comprehensive coverage of the design of spacecraft and the implementation of space missions across a wide spectrum of space applications and space science The text has been thoroughly revised and updated with each chapter authored by a recognized expert in the field Three chapters Ground Segment Product Assurance and Spacecraft System Engineering have been rewritten and the topic of Assembly Integration and Verification has been introduced as a new chapter filling a gap in previous editions This edition addresses front end system level issues such as environment mission analysis and system engineering but also progresses to a detailed examination of subsystem elements which represents the core of spacecraft design This includes mechanical electrical and thermal aspects as well as propulsion and control This quantitative treatment is supplemented by an emphasis on the interactions between elements which deeply influences the process of spacecraft design Adopted on courses worldwide Spacecraft Systems Engineering is already widely respected by students researchers and practising engineers in the space engineering sector It provides a valuable resource for practitioners in a wide spectrum of disciplines including system and subsystem engineers spacecraft equipment designers spacecraft operators space scientists and those involved in related sectors such as space insurance In summary this is an outstanding resource for aerospace engineering students and all those involved in the technical aspects of design and engineering in the space sector

The Logic of Microspace Rick Fleeter, 2000 Changing the focus of the multibillion dollar global aerospace business toward smaller lower cost spacecraft is not happening solely due to technical managerial

financial or market motivations Rick Fleeter's second book on the small low cost space programmes which are the fastest growing segment of aerospace activity gives the reader a keen understanding of the full spectrum of factors driving this profound change The text then goes beyond engineering technologies and management techniques to envision the tantalizing prospects microspace has in store for the industry its present markets and those of the future

Fundamentals of Astrodynamics and Applications D.A. Vallado, 2001-06-30 Fundamentals of Astrodynamics and Applications is rapidly becoming the standard astrodynamics reference for those involved in the business of spaceflight What sets this book apart is that nearly all of the theoretical mathematics is followed by discussions of practical applications implemented in tested software routines For example the book includes a compendium of algorithms that allow students and professionals to determine orbits with high precision using a PC Without a doubt when an astrodynamics problem arises in the future it will become standard practice for engineers to keep this volume close at hand and look it up in Vallado While the first edition was an exceptionally useful and popular book throughout the community there are a number of reasons why the second edition will be even more so There are many reworked examples and derivations Newly introduced topics include ground illumination calculations Moon rise and set and a listing of relevant Internet sites There is an improved and expanded discussion of coordinate systems orbit determination and differential correction Perhaps most important is that all of the software routines described in the book are now available for free in FORTRAN PASCAL and C This makes the second edition an even more valuable text and superb reference

Artificial Gravity Gilles Clément, Angeli Bukley, 2007-05-28 William H Paloski Ph D Human Adaptation and Countermeasures Office NASA Johnson Space Center Artificial gravity is an old concept having gotten its start in the late in the 19th century when Konstantin Tsiolkovsky considered by many to be the father of the Russian space program realized that the human body might not respond well to the free fall of orbital space flight To solve this problem he proposed that space stations be rotated to create centripetal accelerations that might provide inertial loading similar to terrestrial gravitational loading Einstein later showed in his equivalence principle that acceleration is indeed indistinguishable from gravity Subsequently other individuals of note including scientists like Werner von Braun as well as artists like Arthur C Clarke and Stanley Kubrick devised elaborate solutions for spinning vehicles to provide artificial gravity that would offset the untoward physiological consequences of spaceflight By 1959 concerns about the then unknown human responses to spaceflight drove NASA to consider the necessity of incorporating artificial gravity in its earliest human space vehicles Of course owing in part to the relatively short durations of the planned missions artificial gravity was not used in the early NASA programs

Space Psychology and Psychiatry Nick Kanas, Dietrich Manzey, 2003 This text deals with psychological psychiatric and psychosocial issues that affect people who live and work in space Rather than focusing on anecdotal reports and ground based simulation studies it emphasizes the findings from psychological research conducted during actual space missions readable text has previously been found only in scientific journal articles Topics that are

discussed include behavioral adaptation to space human performance and cognitive effects crewmember interactions psychiatric responses psychological counter measures related to habitability factors work design selection training and in flight monitoring and support and the impact of expeditionary missions to Mars and beyond universities medical students and residents in psychiatry and aerospace medicine human factors workers in space and aviation professions individuals involved with isolated environments on Earth for example the Antarctic submarines aerospace workers in businesses and space agencies such as NASA and ESA and anyone who is interested in learning the facts about the human side of long duration space missions

Fundamentals of Space Biology Gilles Clément, K. Slenzka, 2006-10-28 Fundamentals of Space Biology is the third textbook addressing Space Life Sciences in this Space Technology Library series The first of these books focused on the psychological and psychiatric issues that affect people who live and work in space Volume 16 Space Psychology and Psychiatry The second book described the physiological and medical issues of living in a space environment Volume 17 Fundamentals of Space Medicine The objective of this third book was to review the effects of spaceflight on less complex biological systems from single cells to animals and plants Indeed to better understand the changes at the function level it is necessary to comprehend the changes at cellular and tissue levels Studies of cell cultures for example allow the investigation of the indirect effects of gravity i.e. those which occur not because of changes in the stimulation of dedicated gravity sensing organs but because of the new physical properties resulting from the reduction in gravitational force within the cell

Microgravity Two-phase Flow and Heat Transfer Kamiel S. Gabriel, 2007-05-10 Multiphase thermal systems have numerous applications in aerospace heat exchange transport of contaminants in environmental systems and energy transport and conversion systems A reduced or microgravity environment provides an excellent tool for accurate study of the flow without the masking effects of gravity This book presents for the first time a comprehensive coverage of all aspects of two phase flow behaviour in the virtual absence of gravity

The Cumulative Book Index, 1996 A world list of books in the English language Whitaker's Books in Print, 1998 **Illustrated Official Journal (patents)** Great Britain. Patent Office, 1995 Subject Guide to Books in Print, 1991 American Book Publishing Record, 1995 Technology for Large Space Systems, 1979 **Brinkman's catalogus van boeken en tijdschriften**, 1996 With 1901 1910 1956 1960

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