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With the second edition of Space Mission Analysis and Design, two changes have been introduced in the Space Technology Library. Foremost among these is the introduction of the Space Technology Series as a part of the Space Technology Library. Dr. Wiley Larson of the US Air Force Academy and University of Colorado, Colorado Springs, will serve as Managing Editor for the Space Technology Series. This series is a cooperative effort of the Department of Defense, National Aeronautics and Space Administration, Department of Energy, and European Space Agency, coordinated by the US Air Force Academy. The sponsors intend to bring a number of books into the series to improve the literature base in the fundamentals of space technology, beginning with the current volume. Books which are not a part of the Space Technology Series, but which also represent a substantial contribution to the space technology literature, will still be published in the Space Technology Library. As always, we welcome suggestions and contributions from the aerospace community.

Two pioneers of space exploration, Robert Esnault-Pelterie and Ary Sternfeld, introduced the words 'astronautics' and 'cosmonautics,' respectively, into the scientific language. The origin of the term 'astronautics' is well documented. In contrast, the history of the word 'cosmonautics' remains poorly known. Ary Sternfeld is also largely forgotten. The fiftieth anniversary of the breakthrough to space, celebrated in 2007, makes it especially appropriate to remember those visionaries who paved the way to cosmos. The book tells the stories of 'astronautics' and 'cosmonautics' and describes a most unusual life journey of Ary Sternfeld

"Human spaceflight: mission analysis and design" is for you if you manage, design, or operate systems for human spaceflight! It provides end-to-end coverage of designing human space systems for Earth, Moon, and Mars. If you are like many others, this will become the dog-eared book that is always on your desk -and used. The book includes over 800 rules of thumb and sanity checks that will enable you to identify key issues and errors early in the design processes. This book was written by group of 67 professional engineers, managers, and

educators from industry, government, and academia that collectively share over 600 years of space-related experience! The team from the United States, Austria, Canada, France, Germany, Japan, and Russia worked for four-and-one-half years to capture industry and government best practices and lessons-learned from industry and government in an effort to baseline global conceptual design experience for human spaceflight. "Human spaceflight: mission analysis and design" provides a much-needed big-picture perspective that can be used by managers, engineers and students to integrate the myriad of elements associated with human spaceflight.

Fundamentals of Space Systems was developed to satisfy two objectives: the first is to provide a text suitable for use in an advanced undergraduate or beginning graduate course in both space systems engineering and space system design. The second is to be a primer and reference book for space professionals wishing to broaden their capabilities to develop, manage the development, or operate space systems. The authors of the individual chapters are practicing engineers that have had extensive experience in developing sophisticated experimental and operational spacecraft systems in addition to having experience teaching the subject material. The text presents the fundamentals of all the subsystems of a spacecraft missions and includes illustrative examples drawn from actual experience to enhance the learning experience. It includes a chapter on each of the relevant major disciplines and subsystems including space systems engineering, space environment, astrodynamics, propulsion and flight mechanics, attitude determination and control, power systems, thermal control, configuration management and structures, communications, command and telemetry, data processing, embedded flight software, survivability and reliability, integration and test, mission operations, and the initial conceptual design of a typical small spacecraft mission.

Presenting a fundamental definition of resilience, the book examines the concept of resilience as it relates to space system design. The book establishes the required definitions, relates its place to existing state-of-the-art systems engineering practices, and explains the exact process and mathematical tools used to achieve a resilient design. It discusses a variety of potential threats and their impact upon a space system. By providing multiple, real-world examples to illustrate the application of the design methodology, the book covers the necessary techniques and tools, while guiding the reader through the entirety of the process. The book begins with space systems basics to ensure the reader is versed in the functions and components of the system prior to diving into the details of resilience. However, the text does not assume that the reader has an extensive background in the subject matter of resilience. This book is aimed at engineers and architects in the areas of aerospace, space systems, and space communications.

Reducing Space Mission Cost is the first complete treatment of the technology, process, and problems in the most critical areas of modern spaceflight. The demand to reduce cost is unrelenting. This pioneering book addresses all aspects of this problem, including: Technology and processes for reducing cost Cost reduction in mission engineering, spacecraft design, manufacture, launch, and operations Implementation methods and problems The price of reducing cost 10 detailed case studies of what works in practice in: Science missions Interplanetary probes Communications spacecraft Test and Applications missions Beginning on the inside front cover, this book provides real cost data on a variety of missions, systems, and subsystems. According to the authors: 'Reducing mission cost is hard enough if you know what the real costs are, and virtually impossible if you don't.' This book challenges traditional methods, yet recognizes that all space

programs are run to minimize cost within the rules under which they are built and flown. It provides practical recipes for reducing cost in both new and ongoing missions and discusses what works, what government can do to help, and what methods intended to reduce cost may be counterproductive and unintentionally increase cost. As shown on the inside rear cover, the case studies described in the book have reduced total mission cost by 80% to more than 90% with respect to projections by traditional cost methods. This book is a follow-on to the now standard text and reference, *Space Mission Analysis and Design*, also edited by Drs. Wertz and Larson. It is required reading for professionals, students, and managers in astronautics or space sciences and managers or scientists involved in space experiments. This book shows that reducing space mission cost, without reducing reliability, is as possible as it is important for the future of space exploration.

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