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Marshall H. Kaplan, Ph.D., is a recognized expert in satellite and launch vehicle systems design and Engineering. He has participated in many new launch vehicle and satellite developments and has served as Chief Engineer on two launch vehicle programs. Dr. Kaplan was a member of the National Research Council ' s Committee on Reusable Launch Vehicle Technology and Test Program.

Topics include orbital and attitude maneuvers, orbit establishment and orbit transfer, plane rotation, interplanetary transfer and hyperbolic passage, lunar transfer, reorientation with constant momentum, attitude determination, more. Answers to selected exercises. 1976 edition.

This textbook covers fundamental and advanced topics in orbital mechanics and astrodynamics to expose the student to the basic dynamics of space flight. The engineers and graduate students who read this class-tested text will be able to apply their knowledge to mission design and navigation of space missions. Through highlighting basic, analytic and computer-based methods for designing interplanetary and orbital trajectories, this text provides excellent insight into astronautical techniques and tools. This book is ideal for graduate students in Astronautical or Aerospace Engineering and related fields of study, researchers in space industrial and governmental research and development facilities, as well as researchers in astronautics. This book also: · Illustrates all key concepts with examples · Includes exercises for each chapter · Explains concepts and engineering tools a student or experienced engineer can apply to mission design and navigation of space missions · Covers fundamental principles to expose the student to the basic dynamics of space flight

This book describes the art and science of bidding U.S. Government or other large contracts, explaining every stage in the little-understood and sometimes complex bid development process. Covers fundamental principles, practical applications, and illustrates cases with real-life examples. The how-to approach includes coverage of the

pitfalls to avoid, making this book a practical guide for proposal managers. Demonstrates all the important elements in the bidding process--marketing, company, commitment, proposal production and follow-up, and performance expectation after winning the bid.

The key to opening the use of space to private enterprise and to broader public uses lies in reducing the cost of the transportation to space. More routine, affordable access to space will entail aircraft-like quick turnaround and reliable operations. Currently, the space Shuttle is the only reusable launch vehicle, and even parts of it are expendable while other parts require frequent and extensive refurbishment. NASA's highest priority new activity, the Reusable Launch Vehicle program, is directed toward developing technologies to enable a new generation of space launchers, perhaps but not necessarily with single stage to orbit capability. This book assesses whether the technology development, test and analysis programs in propulsion and materials-related technologies are properly constituted to provide the information required to support a December 1996 decision to build the X-33, a technology demonstrator vehicle; and suggest, as appropriate, necessary changes in these programs to ensure that they will support vehicle feasibility goals.

Satellites are used increasingly in telecommunications, scientific research, surveillance, and meteorology, and these satellites rely heavily on the effectiveness of complex onboard control systems. This 1997 book explains the basic theory of spacecraft dynamics and control and the practical aspects of controlling a satellite. The emphasis throughout is on analyzing and solving real-world engineering problems. For example, the author discusses orbital and

rotational dynamics of spacecraft under a variety of environmental conditions, along with the realistic constraints imposed by available hardware. Among the topics covered are orbital dynamics, attitude dynamics, gravity gradient stabilization, single and dual spin stabilization, attitude maneuvers, attitude stabilization, and structural dynamics and liquid sloshing.

A fascinating introduction to the basic principles of orbital mechanics It has been three hundred years since Isaac Newton first formulated laws to explain the orbits of the Moon and the planets of our solar system. In so doing he laid the groundwork for modern science's understanding of the workings of the cosmos and helped pave the way to the age of space exploration. Adventures in Celestial Mechanics offers students an enjoyable way to become acquainted with the basic principles involved in the motions of natural and human-made bodies in space. Packed with examples in which these principles are applied to everything from a falling stone to the Sun, from space probes to galaxies, this updated and revised Second Edition is an ideal introduction to celestial mechanics for students of astronomy, physics, and aerospace engineering. Other features that helped make the first edition of this book the text of choice in colleges and universities across North America include: * Lively historical accounts of important discoveries in celestial mechanics and the men and women who made them * Superb illustrations, photographs, charts, and tables * Helpful chapter-end examples and problem sets

Deep Space Craft opens the door to interplanetary flight. It looks at this world from the vantage point of real operations

on a specific mission, and follows a natural trail from the day-to-day working of this particular spacecraft, through the functioning of all spacecraft to the collaboration of the various disciplines to produce the results for which a spacecraft is designed. These results are of course mostly of a scientific nature, although a small number of interplanetary missions are also flown primarily to test and prove new engineering techniques. The author shows how, in order to make sense of all the scientific data coming back to Earth, the need for experiments and instrumentation arises, and follows the design and construction of the instruments through to their placement and testing on a spacecraft prior to launch. Examples are given of the interaction between an instrument ' s science team and the mission ' s flight team to plan and specify observations, gather and analyze data in flight, and finally present the results and discoveries to the scientific community. This highly focused, insider ' s guide to interplanetary space exploration uses many examples of previous and current endeavors. It will enable the reader to research almost any topic related to spacecraft and to seek the latest scientific findings, the newest emerging technologies, or the current status of a favorite flight. In order to provide easy paths from the general to the specific, the text constantly refers to the Appendices. Within the main text, the intent is general familiarization and categorization of spacecraft and instruments at a high level, to provide a mental framework to place in context and understand any spacecraft and any instrument encountered in the reader ' s experience. Appendix A gives illustrated descriptions of many interplanetary spacecraft, some earth-orbiters and ground facilities to reinforce the classification framework. Appendix B contains illustrated detailed descriptions of a dozen scientific instruments, including some ground-breaking

engineering appliances that have either already been in operation or are poised for flight. Each instrument ' s range of sensitivity in wavelengths of light, etc, and its physical principle(s) of operation is described. Appendix C has a few annotated illustrations to clarify the nomenclature of regions and structures in the solar system and the planets ' ring systems, and places the solar system in context with the local interstellar environment.

"Space Vehicle Dynamics and Control provides a solid foundation in dynamic modeling, analysis, and control of space vehicles. More than 200 figures, photographs, and tables are featured in detailed sections covering the fundamentals of controlling orbital, attitude, and structural motions of space vehicles. The textbook highlights a range of orbital maneuvering and control problems: orbital transfer, rendezvous, and halo orbit determination and control. Rotational maneuvering and attitude control problems of space vehicles under the influence of reaction jet firings, internal energy dissipation, or momentum transfer via reaction wheels and control moment gyros are treated in detail. The textbook also highlights the analysis and design of attitude control systems in the presence of structural flexibility and/or propellant sloshing. At the end of each chapter, Dr. Wie includes a helpful list of references for graduate students and working professionals studying spacecraft dynamics and control. A bibliography of more than 350 additional references in the field of spacecraft guidance, control, and dynamics is also provided at the end of the book. This text requires a thorough knowledge of vector and matrix algebra, calculus, ordinary differential equations, engineering mechanics, and linear system dynamics and control. The first two chapters provide a summary of such necessary background material. Since

some problems may require the use of software for the analysis, control design, and numerical simulation, readers should have access to computational software (i.e., MATLAB) on a personal computer.

Roger D. Werking Head, Attitude Determination and Control Section National Aeronautics and Space Administration/ Goddard Space Flight Center Extensiye work has been done for many years in the areas of attitude determination, attitude prediction, and attitude control. During this time, it has been difficult to obtain reference material that provided a comprehensive overview of attitude support activities. This lack of reference material has made it difficult for those not intimately involved in attitude functions to become acquainted with the ideas and activities which are essential to understanding the various aspects of spacecraft attitude support. As a result, I felt the need for a document which could be used by a variety of persons to obtain an understanding of the work which has been done in support of spacecraft attitude objectives. It is believed that this book, prepared by the Computer Sciences Corporation under the able direction of Dr. James Wertz, provides this type of reference. This book can serve as a reference for individuals involved in mission planning, attitude determination, and attitude dynamics; an introductory textbook for stu dents and professionals starting in this field; an information source for experimen ters or others involved in spacecraft-related work who need information on spacecraft orientation and how it is determined, but who have neither the time nor the resources to pursue the varied literature on this subject; and a tool for encouraging those who could expand this discipline to do so, because much remains to be done to satisfy future needs.