Bruce Eckel

Reconsidering Sputnik Roger D. Launius,2000 This book explores Russia's stunning success of ushering in the space age by launching Sputnik and beating the United States into space. It also examines the formation of NASA, the race for human exploration of the moon, the reality of global satellite communications, and a new generation of scientific spacecraft that began exploring the universe. An introductory essay by Pulitzer Prize winner Walter A. McDougall sets the context for Sputnik and its significance at the end of the twentieth century.

Model Satellites and Spacecraft Frank Ross, 1969 Describes twelve American satellites and spacecraft with explanations of their purpose and history. Also includes directions for constructing models of each with simple materials.

Intermediary Equatorial Orbits of an Artificial Satellite John P. Vinti, 1961 A previous paper derived the solution for the drag-free motion of an artificial satellite in the gravitational field of an oblate planet. The corresponding potential, expressed in oblate spheroidal coordinates, leads to separability and represents the even zonal harmonics exactly through the second, for any oblate planet, and approximately through the fourth, in the case of the earth. The previous paper contained a restriction on the orbital inclination I, viz., I sub c less than I less than 180 degrees - I sub c, where I sub c might be as large as 1 degree 54 minutes for an orbit sufficiently close to the earth. The present paper removes this restriction and shows that many of the formulae for the periodic terms may be simplified, when the orbit is equatorial or almost so. The results agree with those obtained by a direct two-dimensional solution, when the orbit is purely equatorial. (Author).

<u>Energiya-Buran</u> Bart Hendrickx,Bert Vis,2007-12-05 This absorbing book describes the long development of the Soviet space shuttle system, its infrastructure and the space agency's plans to follow up the first historic unmanned mission. The book includes comparisons with the American shuttle system and offers accounts of the Soviet test pilots chosen for training to fly the system, and the operational, political and engineering problems that finally sealed the fate of Buran and ultimately of NASA's Shuttle fleet.

E-business and E-commerce Management Dave Chaffey,2007 Aimed at students, this work covers various aspects of e-business - focusing on sales and marketing, as well as detailing procurement, supply chains, and the legal and security considerations. It contains a range of features to help you learn effectively including margin definitions, international case studies, activities and web links.

Moon Shot Alan Shepard, Deke Slayton, Jay Barbree, 2011-05-03 New York Times bestseller for fans of First Man: A "breathtaking" insider history of NASA's space program—from astronauts Alan Shepard and Deke Slayton (Entertainment Weekly). On October 4, 1957, the Soviet Union launched Sputnik I, and the space race was born. Desperate to beat the Russians into space, NASA put together a crew of the nation's most daring test pilots: the seven men who were to lead America to the moon. The first into space was Alan Shepard; the last was Deke Slayton, whose irregular heartbeat kept him grounded until 1975. They spent the 1960s at the forefront of NASA's effort to conquer space, and Moon Shot is their inside account of what many call the twentieth century's greatest feat—landing humans on another world. Collaborating with NBC's veteran space reporter Jay Barbree, Shepard and Slayton narrate in gripping detail the story of America's space exploration from the time of Shepard's first flight until he and eleven others had walked on the moon.

Guided Missiles United States. Department of the Air Force, 1957

Mission Moon Jeanne Perret,2010-02-18 It is the year 1568. Emperor Akbar is on the throne and all is well in Hindustan. Or is it? Meet Ash and Tara, two feisty kids who battle the vilest villains in Akbar's court. Devious minds are at work, planning to steal Akbar's precious emerald dagger, which the emperor believes brings him good luck. Ash and Tara, twin brother and sister, growing up in a village across the Yamuna land up in Agra Fort and get to know of the conspiracy. Can they stop the ruthless Magesh and his accomplices from carrying out the plan? Or will they get framed for the theft and end up on the wrong side of the world's most powerful monarch? The breathless adventure twists and turns its way through the magnificent Agra Fort, the bylanes of medieval Agra and the dark, stormy forests across the Yamuna. Each story in the brand new Ash and Tara series will keep you engrossed till the final action-packed ending even as you get to know and love Akbar, Birbal, Ash, Tara and their friends like never before.

<u>The Space Shuttle</u> Piers Bizony,2015-04 Get a full retrospective of all 134 flights, every mission, of the space shuttle program. This superbly designed and lavishly illustrated reissue of the best-selling hardcover book marks a special moment in history: the final mission of the space shuttle. Noted space and science author Piers Bizony's retrospective covers the entire space shuttle program that began in 1981 and ended in 2011. Every space shuttle mission is detailed, including all flights of the Columbia, Challenger, Discovery, Atlantis, and Endeavour spacecraft. The book also covers the development and design of the orbiter, as well

as the technical specifications of the vehicle and details of its major assemblies and subassemblies. A full double-gatefold provides a large-scale technical drawing of the space shuttle. If you never got to watch the countdown clock in person during a space shuttle launch, The Space Shuttle is your chance to relive the history of America's first low Earth orbital spacecraft.

The Darkest Dark Colonel Chris Hadfield,2016-10-11 Inspired by the childhood of real-life astronaut Chris Hadfield and brought to life by Terry and Eric Fan's lush, evocative illustrations, The Darkest Dark will encourage readers to dream the impossible. Chris loves rockets and planets and pretending he's a brave astronaut, exploring the universe. Only one problem--at night, Chris doesn't feel so brave. He's afraid of the dark. But when he watches the groundbreaking moon landing on TV, he realizes that space is the darkest dark there is--and the dark is beautiful and exciting, especially when you have big dreams to keep you company.

A Third Order Differential Equation W. R. Utz, 1955

The Algorithmic Image Robert Rivlin, 1986

On Java 8 Bruce Eckel, 2017-06-16

<u>Spacecraft Operations</u> Florian Sellmaier, Thomas Uhlig, Michael Schmidhuber, 2022-06-14 This book describes the basic concepts of spacecraft operations for both manned and unmanned missions. The first part of the book provides a brief overview of the space segment. The next four parts deal with the classic areas of space flight operations: mission operations, communications and infrastructure, the flight dynamics system, and the mission planning system. This is followed by a part describing the operational tasks of the

various subsystems of a classical satellite in Earth orbit. The last part describes the special requirements of other mission types due to the presence of astronauts, the approach of a satellite to another target satellite, or leaving Earth orbit in interplanetary missions and landing on other planets and moons. The 2nd edition is published seven years after the first edition. It contains four new chapters on flight procedures, the human factors, ground station operation, and software and systems. In addition, several chapters have been extensively expanded. The entire book has been brought up to date and the language has been revised. This book is based on the "Spacecraft Operations Course" held at the German Space Operations Center. However, the target audience of this book is not only the participants of the course, but also students of technical and scientific courses, as well as technically interested people who want to gain a deeper understanding of spacecraft operations.

The Romance of Modern Astronomy Hector Macpherson, 1911

<u>The Practical Astronomer</u> Colin A. Ronan, 1981 Combines an historical and how-to approach to explain the major principles of astronomy for beginners.

Yesterday's Tomorrows Joseph J. Corn,Brian Horrigan,1996-05-15 From Jules Verne to the Jetsons, from a 500-passenger flying wing to an anti-aircraft flying buzz-saw, the vision of the future as seen through the eyes of the past demonstrates the play of the American imagination on the canvas of the future.

The New Space Encyclopaedia, 1969

Space Playing Cards - Featuring Photos from the Archives of Nasa Chronicle Books, 2017

Digital Design of Nature Oliver Deussen, Bernd Lintermann, 2006-03-30 What is computer graphics and what are the conceptual tasks of research in this area? To the average person the term still conveys more or less the design of - gos and the manipulation of pictures with the help of image-editing programs. However, during the past four decades, computer graphics has evolved into an innovative multifaceted ?eld of research and computing that affects many other sciences. In many areas and for many problems we can best convey an und- standing through images that trigger our sense with the highest capability: our eye. And, what is more, aside from algorithms, formulas, and tables, the c- puter graphics scientist often is able to create beauty. Though it is a beauty of its own, it often fascinates the viewer, especially when complex aesthetic images emerge from simple mathematical concepts. Also, there are only a few other areas that advance as dynamically as inf- matics and especially computer graphics. While CPU capacity still increases and is almost doubled every 18 months, the rendering speed and ef?ciency of graphics boards has increased even more during recent years. Today, images can be rendered in real time that some years ago still required several hours of computing. Parallel to the rapid improvement of computer hardware, many newalgorithms were developed that today form the basis for some fundamental changes and achievements in graphics.

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