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KEY=GUIDE - LEE LACI

ROCKET PROPULSION

Cambridge University Press Equips students with an up-to-date practical knowledge of rocket propulsion, numerous homework problems, and online self-study materials.

LAUNCHING SCIENCE

SCIENCE OPPORTUNITIES PROVIDED BY NASA'S CONSTELLATION SYSTEM

National Academies Press In January 2004 NASA was given a new policy direction known as the Vision for Space Exploration. That plan, now renamed the United States Space Exploration Policy, called for sending human and robotic missions to the Moon, Mars, and beyond. In 2005 NASA outlined how to conduct the first steps in implementing this policy and began the development of a new human-carrying spacecraft known as Orion, the lunar lander known as Altair, and the launch vehicles Ares I and Ares V. Collectively, these are called the Constellation System. In November 2007 NASA asked the National Research Council (NRC) to evaluate the potential for new science opportunities enabled by the Constellation System of rockets and spacecraft. The NRC committee evaluated a total of 17 mission concepts for future space science missions. Of those, the committee determined that 12 would benefit from the Constellation System and five would not. This book presents the committee's findings and recommendations, including cost estimates, a review of the technical feasibility of each mission, and identification of the missions most deserving of future study.

NASA HISTORICAL DATA BOOK, V. 7

NASA LAUNCH SYSTEMS, SPACE TRANSPORTATION/HUMAN SPACEFLIGHT, AND SPACE SCIENCE

Government Printing Office This volume of the NASA Historical Data Book is the seventh in the series that describes NASA's programs and projects. Covering the years 1989 through 1998, it includes the areas of launch systems, human spaceflight, and space science, continuing the volumes that addressed these topics during NASA's previous decades. Each chapter presents information, much of it statistical, addressing funding, management, and details of programs and missions.

MOONRUSH

IMPROVING LIFE ON EARTH WITH THE MOON'S RESOURCES

Collectors Guide Pub Discusses the development and exploration of space, including how to improve daily lives by bringing concrete benefits to the people of the US and the world.

41ST AIAA/ASME/SAE/ASEE JOINT PROPULSION CONFERENCE & EXHIBIT 10-13 JULY 2005, TUCSON, ARIZONA: 05-4350 - 05-4399

ROCKETS OF THE WORLD

SATURN V FLIGHT MANUAL, SA 507

TAMING LIQUID HYDROGEN

THE CENTAUR UPPER STAGE ROCKET, 1958-2002

MODERN ROBOTICS

Cambridge University Press A modern and unified treatment of the mechanics, planning, and control of robots, suitable for a first course in robotics.

NATIONAL SECURITY SPACE LAUNCH REPORT

Rand Corporation In 1994, the National Space Transportation Policy laid the framework for appropriate government agencies to maintain strong launch systems and infrastructure while modernizing space transportation capabilities and encouraging cost reductions. More than a decade later, through combined Department of Defense (DoD) and industrial investment, the two Evolved Expendable Launch Vehicle (EELV) families of U.S. rockets (Atlas V and Delta IV) have proved to be maturing, reliable state-of-the-art technologies. In 2004, Congress directed the Secretary of Defense to establish a panel of experts with extensive space launch and operations background to address the future National Security Space launch requirements and the means of meeting those requirements. DoD selected RAND to facilitate and support this panel in its deliberations between May 2005 and May 2006. This report analyzes the National Security Space (NSS) Launch Requirements Panel's major findings and recommendations. In short, the Panel concludes that, because basic rocketry principles, use of chemically derived thrust, and multiple expendable stages seem certain to remain the design of choice for operational space launch vehicles, the EELV can satisfy all known and projected NSS requirements through 2020.

EARTH 2020: AN INSIDER'S GUIDE TO A RAPIDLY CHANGING PLANET

Open Book Publishers Fifty years have passed since the first Earth Day, on 22 April 1970. This accessible, incisive and timely collection of essays brings together a diverse set of expert voices to examine how the Earth's environment has changed over this past half century, and what lies in store for our planet over the coming fifty years. Earth 2020: An Insider's Guide to a Rapidly Changing Planet responds to a public increasingly concerned about the deterioration of Earth's natural systems, offering readers a wealth of perspectives on our shared ecological past, and on the future trajectory of planet Earth. Written by world-leading thinkers on the front-lines of global change research and policy, this multi-disciplinary collection maintains a dual focus: some essays investigate specific facets of the physical Earth system, while others explore the social, legal and political dimensions shaping the human environmental footprint. In doing so, the essays collectively highlight the urgent need for collaboration across diverse domains of expertise in addressing one of the most significant challenges facing us today. Earth 2020 is essential reading for everyone seeking a deeper understanding of the past, present and future of our planet, and the role of humanity in shaping this trajectory.

SPACE VEHICLE DESIGN

AIAA

DESIGN OF ROCKETS AND SPACE LAUNCH VEHICLES

American Institute of Aeronautics and Astronautics Incorporated With growing interest in space activity and numerous new launchers in development, this book is a timely, comprehensive survey of important concepts and applications. It enhances understanding and provides exposure to practical aspects of design, manufacturing, testing, and engineering associated with these topics.

THE FUTURE OF THE U.S. INTERCONTINENTAL BALLISTIC MISSILE FORCE

Rand Corporation The authors assess alternatives for a next-generation intercontinental ballistic missile (ICBM) across a broad set of potential characteristics and situations. They use the current Minuteman III as a baseline to develop a framework to characterize alternative classes of ICBMs, assess the survivability and effectiveness of possible alternatives, and weigh those alternatives against their cost.

MOROCCO OVERLAND

ROUTE GUIDE FROM THE ATLAS TO THE SAHARA : 4WD, MOTORCYCLE, VAN, MOUNTAIN BIKE

Trail Blazer Publications Covering over 10,000km from the Atlas to the Sahara, Morocco Overland features detailed GPS off-road routes for 4WDs, motorcycles and mountain bikes as well as scenic byways suitable for any vehicle.

ORIGINS OF NASA NAMES

HUMANS TO MARS

FIFTY YEARS OF MISSION PLANNING, 1950-2000

BAYESIAN NETWORKS

A PRACTICAL GUIDE TO APPLICATIONS

John Wiley & Sons Bayesian Networks, the result of the convergence of artificial intelligence with statistics, are growing in popularity. Their versatility and modelling power is now employed across a variety of fields for the purposes of analysis, simulation, prediction and diagnosis. This book provides a general introduction to Bayesian networks, defining and illustrating the basic concepts with pedagogical examples and twenty real-life case studies drawn from a range of fields including medicine, computing, natural sciences and engineering. Designed to help analysts, engineers, scientists and professionals taking part in complex decision processes to successfully implement Bayesian networks, this book equips readers with proven methods to generate, calibrate, evaluate and validate Bayesian networks. The book: Provides the tools to overcome common practical challenges such as the treatment of missing input data, interaction with experts and decision makers, determination of the optimal granularity and size of the model. Highlights the strengths of Bayesian networks whilst also presenting a discussion of their limitations. Compares Bayesian networks with other modelling techniques such as neural networks, fuzzy logic and fault trees. Describes, for ease of comparison, the main features of the major Bayesian network software packages: Netica, Hugin, Elvira and Discoverer, from the point of view of the user. Offers a historical perspective on the subject and analyses future directions for research. Written by leading experts with practical experience of applying Bayesian networks in finance, banking, medicine, robotics, civil engineering, geology, geography, genetics, forensic science, ecology, and industry, the book has much to offer both practitioners and researchers involved in statistical analysis or modelling in any of these fields.

FEEDBACK SYSTEMS

AN INTRODUCTION FOR SCIENTISTS AND ENGINEERS, SECOND EDITION

Princeton University Press The essential introduction to the principles and applications of feedback systems—now fully revised and expanded This textbook covers the mathematics needed to model, analyze, and design feedback systems. Now more user-friendly than ever, this revised and expanded edition of Feedback Systems is a one-volume resource for students and researchers in mathematics and engineering. It has applications across a range of disciplines that utilize feedback in physical, biological, information, and economic systems. Karl Åström and Richard Murray use techniques from physics, computer science, and operations research to introduce control-oriented modeling. They begin with state space tools for analysis and design, including stability of solutions, Lyapunov functions, reachability, state feedback observability, and estimators. The matrix exponential plays a central role in the analysis of linear control systems, allowing a concise development of many of the key concepts for this class of models. Åström and Murray then develop and explain tools in the frequency domain, including transfer functions, Nyquist analysis, PID control, frequency domain design, and robustness. Features a new chapter on design principles and tools, illustrating the types of problems that can be solved using feedback Includes a new chapter on fundamental limits and new material on the Routh-Hurwitz criterion and root locus plots Provides exercises at the end of every chapter Comes with an electronic solutions manual An ideal textbook for undergraduate and graduate students Indispensable for researchers seeking a self-contained resource on control theory

SYSTEMS ARCHITECTING

CREATING AND BUILDING COMPLEX SYSTEMS

M->CREATED

UNDERGROUND MINING METHODS

ENGINEERING FUNDAMENTALS AND INTERNATIONAL CASE STUDIES

SME Underground Mining Methods: Engineering Fundamentals and International Case Studies presents the latest principles and techniques in use today. Reflecting the international and diverse nature of the industry, a series of mining case studies is presented covering the commodity range from iron ore to diamonds extracted by operations located in all corners of the world. Industry experts have contributed sections on General Mine Design Considerations; Room-and-Pillar Mining of Hard Rock/Soft Rock; Longwall Mining of Hard Rock; Shrinkage Stopping; Sublevel Stopping; Cut-and-Fill Mining; Sublevel Caving; Panel Caving; Foundations for Design; and Underground Mining Looks to the Future.

AERONAUTICAL ENGINEER'S DATA BOOK

Elsevier Aeronautical Engineer's Data Book is an essential handy guide containing useful up to date information regularly needed by the student or practising engineer. Covering all aspects of aircraft, both fixed wing and rotary craft, this pocket book provides quick access to useful aeronautical engineering data and sources of information for further in-depth information. Quick reference to essential data Most up to date information available

HOW APOLLO FLEW TO THE MOON

Springer Science & Business Media Stung by the pioneering space successes of the Soviet Union - in particular, Gagarin being the first man in space, the United States gathered the best of its engineers and set itself the goal of reaching the Moon within a decade. In an expanding 2nd edition of How Apollo Flew to the Moon, David Woods tells the exciting story of how the resulting Apollo flights were conducted by following a virtual flight to the Moon and its exploration of the surface. From launch to splashdown, he hitches a ride in the incredible spaceships that took men to another world, exploring each step of the journey and detailing the enormous range of disciplines, techniques, and procedures the Apollo crews had to master. While describing the tremendous technological accomplishment involved, he adds the human dimension by calling on the testimony of the people who were there at the time. He provides a wealth of fascinating and accessible material: the role of the powerful Saturn V, the reasoning behind trajectories, the day-to-day concerns of human and spacecraft health between two worlds, the exploration of the lunar surface and the sheer daring involved in traveling to the Moon and the mid-twentieth century. Given the tremendous success of the original edition of How Apollo Flew to the Moon, the second edition will have a new chapter on surface activities, inspired by reader's comment on Amazon.com. There will also be additional detail in the existing chapters to incorporate all the feedback from the original edition, and will include larger illustrations.

SUSTAINABLE ENERGY--WITHOUT THE HOT AIR

UIT Cambridge Limited Provides an overview of the sustainable energy crisis that is threatening the world's natural resources, explaining how energy consumption is estimated and how those numbers have been skewed by various factors and discussing alternate forms of energy that can and should be used.

CYBER-PHYSICAL SECURITY

PROTECTING CRITICAL INFRASTRUCTURE AT THE STATE AND LOCAL LEVEL

Springer This book focuses on the vulnerabilities of state and local services to cyber-threats and suggests possible protective action that might be taken against such threats. Cyber-threats to U.S. critical infrastructure are of growing concern to policymakers, managers and consumers. Information and communications technology (ICT) is ubiquitous and many ICT devices and other components are interdependent; therefore, disruption of one component may have a negative, cascading effect on others. Cyber-attacks might include denial of service, theft or manipulation of data. Damage to critical infrastructure through a cyber-based attack could have a significant impact on the national security, the economy, and the livelihood and safety of many individual citizens. Traditionally cyber security has generally been viewed as being focused on higher level threats such as those against the internet or the Federal government. Little attention has been paid to cyber-security at the state and local level. However, these governmental units play a critical role in providing services to local residents and consequently are highly vulnerable to cyber-threats. The failure of these services, such as waste water collection and water supply, transportation, public safety, utility services, and communication services, would pose a great threat to the public. Featuring contributions from leading experts in the field, this volume is intended for state and local government officials and managers, state and Federal officials, academics, and public policy specialists.

THE INTERNATIONAL ATLAS OF MARS EXPLORATION 2 VOLUME HARDBACK SET

INTERNATIONAL REFERENCE GUIDE TO SPACE LAUNCH SYSTEMS

Amer Inst of Aeronautics & This bestselling reference guide contains the most reliable and comprehensive material on launch programs in Brazil, China, Europe, India, Israel, and the United States. Packed with illustrations and figures, this edition has been updated and expanded, and offers a quick and easy data retrieval source for policy makers, planners, engineers, launch buyers, and students.

ADVANCED CELLULAR NETWORK PLANNING AND OPTIMISATION

2G/2.5G/3G...EVOLUTION TO 4G

John Wiley & Sons A highly practical guide rooted in theory to include the necessary background for taking the reader through the planning, implementation and management stages for each type of cellular network. Present day cellular networks are a mixture of the technologies like GSM, EGPRS and WCDMA. They even contain features of the

technologies that will lead us to the fourth generation networks. Designing and optimising these complex networks requires much deeper understanding. Advanced Cellular Network Planning and Optimisation presents radio, transmission and core network planning and optimisation aspects for GSM, EGPRS and WCDMA networks with focus on practical aspects of the field. Experts from each of the domains have brought their experiences under one book making it an essential read for design practitioners, experts, scientists and students working in the cellular industry. Key Highlights Focus on radio, transmission and core network planning and optimisation Covers GSM, EGPRS, WCDMA network planning & optimisation Gives an introduction to the networks/technologies beyond WCDMA, and explores its current status and future potential Examines the full range of potential scenarios and problems faced by those who design cellular networks and provides advice and solutions all backed up with real-world examples This text will serve as a handbook to anyone engaged in the design, deployment, performance and business of Cellular Networks. "Efficient planning and optimization of mobile networks are key to guarantee superior quality of service and user experience. They also form the essential foundation for the success of future technology development, making this book a valuable read on the road towards 4G." –Tero Ojanperä, Chief Technology Officer, Nokia Networks

HARD ROCK MINER'S HANDBOOK

OVERLANDERS' HANDBOOK

WORLDWIDE ROUTE AND PLANNING GUIDE - CAR, 4WD, VAN, TRUCK

Trail Blazer Publications "From Timbuktu to Kathmandu via Machu Picchu Overlanders' Handbook covers everything you need to know in one comprehensive manual"--Back cover.

3D LASER SCANNING FOR HERITAGE

ADVICE AND GUIDANCE ON THE USE OF LASER SCANNING IN ARCHAEOLOGY AND ARCHITECTURE

The first edition of 3D Laser Scanning for Heritage was published in 2007 and originated from the Heritage3D project that in 2006 considered the development of professional guidance for laser scanning in archaeology and architecture. Publication of the second edition in 2011 continued the aims of the original document in providing updated guidance on the use of three-dimensional (3D) laser scanning across the heritage sector. By reflecting on the technological advances made since 2011, such as the speed, resolution, mobility and portability of modern laser scanning systems and their integration with other sensor solutions, the guidance presented in this third edition should assist archaeologists, conservators and other cultural heritage professionals unfamiliar with the approach in making the best possible use of this now highly developed technique.

CONSERVING BOGS

THE MANAGEMENT HANDBOOK

Bernan Assoc In Europe bogs have been damaged and modified, leaving only fragmentary remains in some countries, and making raised bogs one of the rarest habitats in Britain. Legislative protection is not enough. To conserve a site, management is needed, and this manual provides practical information on the correct management solutions for bogs. It also includes 29 case studies from across Europe to illustrate all the methods and techniques described.

ATLAS OF UNIportal VIDEO ASSISTED THORACIC SURGERY

Springer This introduces the history, development and current status of uniportal VATS by pioneers and authorities of this technique. The highly illustrated content in the chapters enhances readers to rapidly understand the techniques of uniportal VAT. The use of video clips adds value to the learning experience and applicability of the techniques. The contents will be of great interest to thoracic surgeons who are already practicing video-assisted thoracic surgery, as well as those who are starting training. It will also serve as authoritative reference text for doctors, students and allied health professionals who would like to learn more about the new technique of uniportal VATS.

THE SOCHI PROJECT

AN ATLAS OF WAR AND TOURISM IN THE CAUCASUS

Published in conjunction with the exhibitions: FoMu, Antwerp, Belgium, October 25, 2013-March 9, 2014; Winzavod, Moscow, October 18-December 22, 2013; and DePaul University Art Museum, Chicago, January 16-March 30, 2014.

BIRD ECOLOGY AND CONSERVATION

A HANDBOOK OF TECHNIQUES

Oxford University Press Outlining the main methods and techniques available to ornithologists, this book brings together in one authoritative source contributions containing information on avian ecology and conservation.

PLANNING AND DESIGN OF AIRPORTS, FIFTH EDITION

McGraw Hill Professional Authoritative, Up-to-Date Coverage of Airport Planning and Design Fully updated to reflect the significant changes that have occurred in the aviation industry, the new edition of this classic text offers definitive guidance on every aspect of planning, design, engineering, and renovating airports and terminals. Planning and Design of Airports, Fifth Edition, includes complete coverage of the latest aircraft and air traffic management technologies, passenger processing technologies, computer-based analytical and design models, new guidelines for estimating required runway lengths and pavement thicknesses, current Federal Aviation Administration (FAA) and International Civil Aviation Organization (ICAO) standards, and more. Widely recognized as the field's standard text, this time-tested, expertly written reference is the best and most trusted source of information on current practice, techniques, and innovations in airport planning and design. **COVERAGE INCLUDES:** Designing facilities to accommodate a wide variety of aircraft Air traffic management Airport planning studies Forecasting for future demands on airport system components Geometric design of the airfield Structural design of airport pavements Airport lighting, marking, and signage Planning and design of the terminal area Airport security planning Airport airside capacity and delay Finance strategies, including grants, bonds, and private investment Environmental planning Heliports

SUSTAINABLE DEVELOPMENT AND PLANNING V

WIT Press This book contains the proceedings of the latest in a series of biennial conferences on the topic of sustainable regional development that began in 2003. Organised by the Wessex Institute of Technology, the conference series provides a common forum for all scientists specialising in the range of subjects included within sustainable development and planning. It has become apparent that planners, environmentalists, architects, engineers, policy makers and economists have to work together in order to ensure that planning and development can meet our present needs without compromising the ability of future generations. The topics covered by the papers included in the book include City planning; Regional planning; Social and political issues; Sustainability in the built environment; Rural developments; Cultural heritage; Transportation; Ecosystems analysis, protection and remediation; Environmental management; Environmental impact assessment; Indicators of sustainability; Sustainable solutions in developing countries; Sustainable tourism; Waste management; Flood risk management; Resources management; and Industrial developments.

THE HITCHHIKER'S GUIDE TO THE GALAXY

42ND ANNIVERSARY EDITION

Pan Macmillan 'One of the greatest achievements in comedy. A work of staggering genius' - David Walliams An international phenomenon and pop-culture classic, The Hitchhiker's Guide to the Galaxy has been a radio show, TV series, novel, stage play, comic book and film. Following the galactic (mis)adventures of Arthur Dent, Hitchhiker's in its various incarnations has captured the imaginations of curious minds around the world . . . It's an ordinary Thursday lunchtime for Arthur Dent until his house gets demolished. The Earth follows shortly afterwards to make way for a new hyperspace express route, and his best friend has just announced that he's an alien. At this moment, they're hurtling through space with nothing but their towels and an innocuous-looking book inscribed, in large friendly letters, with the words: DON'T PANIC. The weekend has only just begun . . . This 42nd Anniversary Edition includes exclusive bonus material from the Douglas Adams archives, and an introduction by former Doctor Who showrunner, Russell T Davies. Continue Arthur Dent's intergalactic adventures in the rest of the trilogy with five parts: The Restaurant at the End of the Universe, Life, the Universe and Everything, So Long, and Thanks for All the Fish, and Mostly Harmless.

THE GOES-R SERIES

A NEW GENERATION OF GEOSTATIONARY ENVIRONMENTAL SATELLITES

Elsevier The GOES-R Series: A New Generation of Geostationary Environmental Satellites introduces the reader to the most significant advance in weather technology in a generation. The world's new constellation of geostationary operational environmental satellites (GOES) are in the midst of a drastic revolution with their greatly improved capabilities that provide orders of magnitude improvements in spatial, temporal and spectral resolution. Never before have routine observations been possible over such a wide area. Imagine satellite images over the full disk every 10 or 15 minutes and monitoring of severe storms, cyclones, fires and volcanic eruptions on the scale of minutes. Introduces the GOES-R Series, with chapters on each of its new products Provides an overview of how to read new satellite images Includes full-color images and online animations that demonstrate the power of this new technology

NASA SYSTEM SAFETY HANDBOOK

System safety is the application of engineering and management principles, criteria, and techniques to optimize safety within the constraints of operational effectiveness, time, and cost throughout all phases of the system life cycle. System safety is to safety as systems engineering is to engineering. When performing appropriate analysis, the evaluation is performed holistically by tying into systems engineering practices and ensuring that system safety has an integrated system-level perspective. The NASA System Safety Handbook presents the overall framework for System Safety and provides the general concepts needed to implement the framework. The treatment addresses activities throughout the system life cycle to assure that the system meets safety performance requirements and is as safe as reasonably practicable. This handbook is intended for project management and engineering teams and for those with review and oversight responsibilities. It can be used both in a forward-thinking mode to promote the development of safe systems, and in a retrospective mode to determine whether desired safety objectives have been achieved. The topics covered in this volume include general approaches for formulating a hierarchy of safety objectives, generating a corresponding hierarchical set of safety claims, characterizing the system safety activities needed to provide supporting evidence, and presenting a risk-informed safety case that validates the claims. Volume 2, to be completed in 2012, will provide specific guidance on the conduct of the major system safety activities and the development of the evidence.