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KEY=MISSION - KENDRICK KARLEE

Deep Impact Mission: Looking Beneath the Surface of a Cometary Nucleus

Springer Science & Business Media **Deep Impact, or at least part of the flight system, is designed to crash into comet 9P/Tempel 1. This bold mission design enables cometary researchers to peer into the cometary nucleus, analyzing the excavated material with its imagers and spectrometers. The book describes the mission, its objectives, expected results, payload, and data products in articles written by those most closely involved. This mission has the potential of revolutionizing our understanding of the cometary nucleus.**

Highlights of Astronomy: Volume 14

Cambridge University Press **Provides a broad overview of modern astrophysics for graduate students and researchers.**

Delay Tolerant Networks

Protocols and Applications

CRC Press **A class of Delay Tolerant Networks (DTN), which may violate one or more of the assumptions regarding the overall performance characteristics of the underlying links in order to achieve smooth operation, is rapidly growing in importance but may not be well served by the current end-to-end TCP/IP model. Delay Tolerant Networks: Protocols and Applicat**

General Science & Technology Compendium for IAS Prelims General Studies Paper 1 & State PSC Exams 3rd Edition

Disha Publications

Space Operations: Inspiring Humankind's Future

Springer **This book includes a selection of 30 reviewed and enhanced manuscripts published during the 15th SpaceOps Conference held in May 2018 in Marseille, France. The selection was driven by their quality and relevance to the space operations community. The papers represent a cross-section of three main subject areas: Mission Management – management tasks for designing, preparing and operating a particular mission Spacecraft Operations – preparation and implementation of all activities to operate a space vehicle (crewed and uncrewed) under all conditions Ground Operations – preparation, qualification, and operations of a mission dedicated ground segment and appropriate infrastructure including antennas, control centers, and communication means and interfaces This book promotes the SpaceOps Committee's mission to foster the technical interchange on all aspects of space mission operations and ground data systems while promoting and maintaining an international community of space operations experts.**

Departments of Commerce, Justice, Science, and Related Agencies Appropriations for Fiscal Year ...

Commerce, Justice, Science, and Related Agencies Appropriations for Fiscal Year 2007

Hearings Before a Subcommittee of the Committee on Appropriations, United States Senate, One Hundred Ninth Congress, Second Session

Science, the Departments of State, Justice, and Commerce, and Related Agencies Appropriations for 2007

Hearings Before a Subcommittee of the Committee on Appropriations, House of Representatives, One Hundred Ninth Congress,

Second Session

Game Theory and Machine Learning for Cyber Security

John Wiley & Sons **Move beyond the foundations of machine learning and game theory in cyber security to the latest research in this cutting-edge field In Game Theory and Machine Learning for Cyber Security, a team of expert security researchers delivers a collection of central research contributions from both machine learning and game theory applicable to cybersecurity. The distinguished editors have included resources that address open research questions in game theory and machine learning applied to cyber security systems and examine the strengths and limitations of current game theoretic models for cyber security. Readers will explore the vulnerabilities of traditional machine learning algorithms and how they can be mitigated in an adversarial machine learning approach. The book offers a comprehensive suite of solutions to a broad range of technical issues in applying game theory and machine learning to solve cyber security challenges. Beginning with an introduction to foundational concepts in game theory, machine learning, cyber security, and cyber deception, the editors provide readers with resources that discuss the latest in hypergames, behavioral game theory, adversarial machine learning, generative adversarial networks, and multi-agent reinforcement learning. Readers will also enjoy: A thorough introduction to game theory for cyber deception, including scalable algorithms for identifying stealthy attackers in a game theoretic framework, honeypot allocation over attack graphs, and behavioral games for cyber deception An exploration of game theory for cyber security, including actionable game-theoretic adversarial intervention detection against persistent and advanced threats Practical discussions of adversarial machine learning for cyber security, including adversarial machine learning in 5G security and machine learning-driven fault injection in cyber-physical systems In-depth examinations of generative models for cyber security Perfect for researchers, students, and experts in the fields of computer science and engineering, Game Theory and Machine Learning for Cyber Security is also an indispensable resource for industry professionals, military personnel, researchers, faculty, and students with an interest in cyber security.**

Cracking IAS Prelims Revision Files – General Science & Technology (Vol. 6/9)

Disha Publications **Cracking IAS Prelims Revision Files – General Science & Technology (Vol. 6/9) is the 1st ebook of a series of 9 eBooks specially prepared to help IAS aspirants cross the milestone of Preliminary Exam. The ebook is aimed at Revision cum practice so as to develop confidence to crack the IAS Prelim Exam. • The eBook is divided into 3 Topics • Each topic provides 5-6 Revision Modules ensuring complete revision of the topic. Thus in all around 15 such Modules are provided. • Each topic will end up with a Quiz containing 15 questions to test your topic preparedness. • Further Solved Questions of the last 5 years on General Science & Technologyare also provided. • In the end 2 Tests are provided on General Science & Technologyto test your revision of the entire section This ebook, along with the 8 other ebooks of this series, will definitely help you improve your score in the IAS Prelim Exam.**

The General Science Compendium for IAS Prelims General Studies Paper 1 & State PSC Exams 2nd Edition

Disha Publications **The thouroughly Revised & Updated 2nd Edition of the book "The General Science Compendium" has been prepared with enormous efforts for all IAS aspirants, State PCS and other competitive exams. The book is prepared on the concept "Latest Information - Authentic Data". The book has been divided into 4 parts - Physics (6 Chapters), Chemistry (7 Chapters), Biology (7 Chapters) & Science and Technology (6 Chapters). followed by an exercise with 1300+ Simple MCQs & statement based MCQs. The book captures most of the important questions with explanations of the past years of the IAS Prelim exam, State PSC, NDA and other competitive exams distributed in the various chapters. The book not only covers 100% syllabus but is also covered with Mind Maps, Infographics, Charts, Tables and latest exam pattern MCQs. The emphasis of the book has been on conceptual understanding and better retention which are important from the point of view of the exam.**

Observer

Spaceflight Mechanics

Proceedings of the AAS/AIAA Spaceflight Mechanics Meeting

Encyclopedia of Space and Astronomy

Infobase Publishing **Presents a comprehensive reference to astronomy and space exploration, with articles on space technology, astronauts, stars, planets, key theories and laws and more.**

Highlights of Astronomy

Vol. 1- contain papers, etc., from 13th- General Assembly.

The Budget of the United States Government

Exploring Mars

Chronicles from a Decade of Discovery

University of Arizona Press **The Red Planet has been a subject of fascination for humanity for thousands of years, becoming part of our folklore and popular culture. The most Earthlike of the planets in our solar system, Mars may have harbored some form of life in the past and may still possess an ecosystem in some underground refuge. The mysteries of this fourth planet from our Sun make it of central importance to NASA and its science goals for the twenty-first century. In the wake of the very public failures of the Mars Polar Lander and the Mars Climate Orbiter in 1999, NASA embarked on a complete reassessment of the Mars Program. Scott Hubbard was asked to lead this restructuring in 2000, becoming known as the "Mars Czar." His team's efforts resulted in a very successful decade-long series of missions—each building on the accomplishments of those before it—that adhered to the science adage "follow the water" when debating how to proceed. Hubbard's work created the Mars Odyssey mission, the twin rovers Spirit and Opportunity, the Mars Reconnaissance Orbiter, the Phoenix mission, and most recently the planned launch of the Mars Science Laboratory. Now for the first time Scott Hubbard tells the complete story of how he fashioned this program, describing both the technical and political forces involved and bringing to life the national and international cast of characters engaged in this monumental endeavor. Blending the exciting stories of the missions with the thrills of scientific discovery, Exploring Mars will intrigue anyone interested in the science, the**

engineering, or the policy of investigating other worlds.

Catastrophic Events Caused by Cosmic Objects

Springer Science & Business Media **An asteroid or comet will inevitably strike the Earth some day, and potentially cause great destruction. This volume considers hazards due to collisions with cosmic objects, particularly in light of recent investigations of impacts by the authors. Each chapter, written by an expert, contains an overview of an aspect and new findings in the field. Coverage describes and numerically estimates the main hazardous effects.**

Robotic Exploration of the Solar System

Part 4: The Modern Era 2004 –2013

Springer **In Robotic Exploration of the Solar System, Paolo Ulivi and David Harland provide a comprehensive account of the design and management of deep-space missions, the spacecraft involved – some flown, others not – their instruments, and their scientific results. This fourth volume in the series covers the period 2004 to the present day and features: coverage of the Rosetta and Curiosity missions up to the end of 2013 coverage of Mars missions since 2005, including the Mars Reconnaissance Orbiter, Phoenix and Fobos-Grunt, plus a description of plans for future robotic exploration of the Red Planet coverage of all planetary missions launched between 2004 and 2013, including the Deep Impact cometary mission, the MESSENGER Mercury orbiter, the New Horizons Pluto flyby and the Juno Jupiter orbiter the first complete description of the Chinese Chang'e 2 asteroid flyby mission ever published extensive coverage of future missions, including the European BepiColombo Mercury orbiter and international plans to revisit the most interesting moons of Jupiter and Saturn.**

Antenna Arraying Techniques in the Deep Space Network

John Wiley & Sons **An introduction to antenna Arraying in the Deep Space network Antenna arraying is the combining of the output from several antennas in order to improve the signal-to-noise ratio (SNR) of the received signal. Now implemented at the Goldstone Complex and other Deep Space Network (DSN) overseas facilities, antenna arraying provides flexible use of multiple antennas to increase data rates and has enabled NASA's DSN to extend the missions of some spacecraft beyond their planned lifetimes. Antenna Arraying Techniques in the Deep Space Network introduces the development and use of antenna arraying as it is implemented in the DSN. Drawing on the work of scientists at JPL, this timely volume summarizes the development of antenna arraying and its historical background; describes key concepts and techniques; analyzes and compares several methods of arraying; discusses several correlation techniques used for obtaining the combined weights; presents the results of several arraying experiments; and suggests directions for future work. An important contribution to the scientific literature, Antenna Arraying Techniques in the Deep Space Network * Was commissioned by the JPL Deep Space Communications and Navigation Systems (DESCANSO) Center of Excellence * Highlights many NASA-funded technical contributions pertaining to deep space communications systems * Is a part of the prestigious JPL Deep Space Communications and Navigation Series The Deep Space Communications and Navigation Series is authored by scientists and engineers with extensive experience in astronautics, communications, and related fields. It lays the foundation for innovation in the areas of deep space navigation and communications by disseminating state-of-the-art knowledge in key technologies.**

NASA Space Technology Roadmaps and Priorities

Restoring NASA's Technological Edge and Paving the Way for a New Era in Space

National Academies Press **NASA's Office of the Chief Technologist (OCT) has begun to rebuild the advanced space technology program in the agency with plans laid out in 14 draft technology roadmaps. It has been years since NASA has had a vigorous, broad-based program in advanced space technology development and its technology base has been largely depleted. However, success in executing future NASA space missions will depend on advanced technology developments that should already be underway. Reaching out to involve the external technical community, the National Research Council (NRC) considered the 14 draft technology roadmaps prepared by OCT and ranked the top technical challenges and highest priority technologies that NASA should emphasize in the next 5 years. This report provides specific guidance and recommendations on how the effectiveness of the technology development program managed by OCT can be enhanced in the face of scarce resources.**

Deep Space Craft

An Overview of Interplanetary Flight

Springer Science & Business Media **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.**

Advances in Recent Trends in Communication and Networks

Allied Publishers

Report

Delay and Disruption Tolerant Networks

Interplanetary and Earth-Bound -- Architecture, Protocols, and Applications

CRC Press **Delay- and Disruption Tolerant Networks (DTNs) are networks subject to arbitrarily long-lived disruptions in connectivity and therefore cannot guarantee end-to-end connectivity at all times. Consequently DTNs called for novel core networking protocols since most existing Internet protocols rely on the network's ability to maintain end-to-end communication between participating nodes. This book presents the fundamental principles that underline DTNs. It explains the state-of-the-art on DTNs, their architecture, protocols, and applications. It also explores DTN's future technological trends and applications. Its main goal is to serve as a reference for researchers and practitioners.**

Handbook of the Solar-Terrestrial Environment

Springer Science & Business Media **As a star in the universe, the Sun is constantly releas- cover a wide range of time and spatial scales, making ?? ing energy into space, as much as ?. ? ?? erg/s. Tis observations in the solar-terrestrial environment c- energy emission basically consists of three modes. Te plicated and the understanding of processes di?cult. ?rst mode of solar energy is the so-called blackbody ra- In the early days, the phenomena in each plasma diation, commonly known as sunlight, and the second region were studied separately, but with the progress mode of solar electromagnetic emission, such as X rays of research, we realized the importance of treating and UV radiation, is mostly absorbed above the Earth's the whole chain of processes as an entity because of stratosphere. Te third mode of solar energy emission is strong interactions between various regions within in the form of particles having a wide range of energies the solar-terrestrial system. On the basis of extensive from less than ? keV to more than ? GeV. It is convenient satellite observations and computer simulations over to group these particles into lower-energy particles and thepasttwo decades, it hasbecomepossibleto analyze higher-energy particles, which are referred to as the so- speci?cally the close coupling of di?erent regions in the lar wind and solar cosmic rays, respectively. solar-terrestrial environment.**

Department of housing and urban development, Federal home loan bank board, Federal savings and loan insurance corporation, National aeronautics and space administration, National aeronautics and space council, National science foundation, Office of science and technology, Veterans administration, testimony of members of Congress, interested individuals and organizations

Independent Offices Appropriations for 1967

Hearings ... 89th Congress, 2d Session, Part 2

Independent Offices Appropriations for 1967

Hearings Before a Subcommittee on Appropriations, House of Representatives, Eighty-ninth Congress, Second Session

Military Mission Formations and Hybrid Wars

New Sociological Perspectives

Routledge **This volume explores and develops new social-scientific tools for the analysis and understanding of contemporary military missions in theatre. Despite the advent of new types of armed conflict, the social-scientific study of militaries in action continues to focus on tools developed in the hey-day of conventional wars. These tools focus on such classic issues as cohesion and leadership, communication and unit dynamics, or discipline and motivation. While these issues continue to be important, most studies focus on organic units (up to and including brigades). By contrast, this volume suggests the utility of concepts related to mission formations – as opposed to 'units' or 'components' – to better capture the (ongoing) processual nature of the amalgamations and combinations that military involvement in conflicts necessitates. The study of these formations by the social sciences – sociology, social psychology, anthropology, political science and organization science – requires the introduction of new analytical tools to the study of militaries in theatre. As such, this volume utilizes new approaches to social life, organizational dynamics and to armed violence to understand the place of the armed forces in contemporary conflicts and the new tasks they are assigned. This book will be of much interest to students of military studies, sociology, security studies and International Relations in general.**

Review of Tracking and Data Acquisition Program

Hearings, Ninety-third Congress, First and Second Sessions

Review of Tracking and Data Acquisition Program, Hearings Before the Subcommittee on Aeronautics and Space Technology Of..., 93-1 & 93-2, Oct 24, 1973; Jan. 29, 1974

International Science and Technology Transfer Act of 1974

Hearings Before the Subcommittee on International Cooperation in Science and Space of the Committee on Science and Astronautics, U.S. House of Representatives, Ninety-third Congress, Second Session, May 21, 22, 23, 1974

Y2K in Orbit

The Impact on Satellites and the Global Positioning System : Joint Hearing Before the Committee on Science, Subcommittee on Technology, and the Committee on Government Reform, Subcommittee on Government Management, Information, and Technology, House of Representatives, One Hundred Sixth Congress, First Session, May 12, 1999

Zero Trust Networks

Building Secure Systems in Untrusted Networks

"O'Reilly Media, Inc." **The perimeter defenses guarding your network perhaps are not as secure as you think. Hosts behind the firewall have no defenses of their own, so when a host in the "trusted" zone is breached, access to your data center is not far behind. That's an all-too-familiar scenario today. With this practical book, you'll learn the principles behind zero trust architecture, along with details necessary to implement it. The Zero Trust Model treats all hosts as if they're internet-facing, and considers the entire network to be compromised and hostile. By taking this approach, you'll focus on building strong authentication, authorization, and encryption throughout, while providing compartmentalized access and better operational agility. Understand how perimeter-based defenses have evolved to become the broken model we use today Explore two case studies of zero trust in production networks on the client side (Google) and on the server side (PagerDuty) Get example configuration for open source tools that you can use to build a zero trust network Learn how to migrate from a perimeter-based network to a zero trust network in production**

Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations for 2004:

Office of Science and Technology Policy

Fundamentals of Public Safety Networks and Critical Communications Systems

Technologies, Deployment, and Management

John Wiley & Sons **A timely overview of a complete spectrum of technologies specifically designed for public safety communications as well as their deployment as management In our increasingly disaster-prone world, the need to upgrade and better coordinate our public safety networks combined with successful communications is more critical than ever. Fundamentals of Public Safety Networks and Critical Communications Systems fills a gap in the literature by providing a book that reviews a comprehensive set of technologies, from most popular to the most advanced communications technologies that can be applied to public safety networks and mission-critical communications systems. The book explores the technical and economic feasibility, design, application, and sustainable operation management of these vital networks and systems. Written by a noted expert in the field, the book provides extensive coverage of systems, services, end-user devices, and applications of public-safety services and technologies. The author explores the potential for advanced public safety systems, and this comprehensive text covers all aspects of the public safety and critical communications network field. This important book: Provides an introduction to and discussion of the common characteristics of our critical communications systems Presents a review of narrowband technologies such as Project 25, TETRA, and DMR as well as the broadband technologies such as the LTE technology Focuses on the emerging technologies that can be adopted to improve our vital communications systems Discusses deployment of such technologies, including economics and finance, planning and project management Provides, in detail, the issues and solutions related to the management of such communications networks Offers a complete list of standards documents Written for professionals in the industry, academics, and government and regulatory agencies, Fundamentals of Public Safety Networks and Critical Communications Systems offers a review of the most significant safety technologies, explores the application for advanced technologies, and examines the most current research.**

Research and Technology Objectives and Plans Summary (RTOPS)

The Militarization and Weaponization of Space

Lexington Books **The militarization of space began as a rivalry between the United States and the Soviet Union and grew to enormous proportions during the height of the Cold War. Satellite reconnaissance, navigation and weapons guidance, and electronic intelligence comprise only a few of the efforts taken to militarize and dominate space. Today as the prominence of information technology, computing, and telecommunications advances, so does the concept of space as a battlefield. In The Militarization and Weaponization of Space, Matthew Mowthorpe diligently analyzes the military space policies of the United States, the Soviet Union/Russia, and the People's Republic of China from the Cold War period to the present day. Mowthorpe focuses on the development of the ballistic missile defense and other anti-satellite systems and aptly assesses to what degree space will become armed. This work cogently addresses an issue of increasing urgency to scholars of international politics.**