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Disease-relevant intracellular protein-protein interactions occurring at defined cellular sites possess great potential as drug targets. They permit highly specific pharmacological interference with defined cellular functions. Drugs targeting such interactions are likely to act with fewer side effects than conventional medication influencing whole cell functions. This book discusses therapeutically relevant protein-protein interactions with a major focus on scaffolding proteins tethering signal transduction processes to defined cellular compartments by direct protein-protein interactions. Recent advances in the development of pharmacological agents interfering with protein-protein interactions are highlighted.

NOTE: This edition features the same content as the traditional text in a convenient, three-hole-punched, loose-leaf version. Student Value Editions also offer a great value; this format costs significantly less than a new textbook. Before purchasing, check with your instructor or review your course syllabus to ensure that you select the correct ISBN. For Student Value Editions that include MyLab(tm) or Mastering(tm), several versions may exist for each title -- including customized versions for individual schools -- and registrations are not transferable. In addition, you may need a Course ID, provided by your instructor, to register for and use MyLab or Mastering platforms. For courses in entrepreneurship. Teach the entrepreneurial process

through real-world examples Entrepreneurship: Successfully Launching New Ventures explores the allure of entrepreneurship, teaching students how to successfully launch and grow their own business. Using real business profiles of inspiring young entrepreneurs, the text engages students through relevant examples they can easily relate to. The 6th Edition examines entrepreneurship through an easy, four-step process that clearly outlines both the excitement and difficulty of launching a new company. Careful to identify failures as well as successes, the text is a guide to starting a new business. Also available with MyLab Entrepreneurship By combining trusted authors' content with digital tools and a flexible platform, MyLab personalizes the learning experience and improves results for each student.

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Entrepreneurship: Successfully Launching New Ventures
This updated guide is perfect for self-study with 3 full-length practice exams, 3 free-response practice exams, detailed answers to all questions, test-taking strategies, powerhouse drills and study schedule. Exams cover prose, poetry, drama and theater, reading and comprehension, and identifying literary devices. Also features REA's popular software, TESTware, with full-length, timed, computerized practice exams and automatic.

Teach yourself the fundamentals of Web development with ASP.NET 4-one step at a time. With STEP BY STEP, you get the guidance and learn-by-doing examples you need to start building Web applications and Web services in the Microsoft Visual Studio(R) 2010 environment. The author-a highly regarded programming expert, writer, and instructor-illuminates ASP.NET features through practical examples that help developers quickly grasp concepts and apply techniques to the real world. The book also includes a companion CD with code samples, data sets, and a fully searchable eBook. For customers who purchase an ebook version of this title, instructions for downloading the CD files can be found in the ebook.

Traces the development of the U.S. spy satellite program, describes the types of information it gathers, and explains how spy satellites have helped shape foreign policy

Your hands-on guide to Visual C# fundamentals Expand your expertise—and teach yourself the fundamentals of

Microsoft Visual C# 2013. If you have previous programming experience but are new to Visual C# 2013, this tutorial delivers the step-by-step guidance and coding exercises you need to master core topics and techniques. Discover how to: Create and debug C# applications in Visual Studio 2013 Work with variables, identifiers, statements, operators, and methods Create interfaces and define abstract classes Write robust code that can catch and handle exceptions Display and edit data using data binding with Microsoft ADO.NET Entity Framework Respond to user input and touchscreen gestures Handle events arising from multiple sources Develop your first Windows 8.1 apps

This two-volume set (CCIS 1229 and CCIS 1230) constitutes the refereed proceedings of the 5th International Conference on Recent Developments in Science, Engineering and Technology, REDSET 2019, held in Gurugram, India, in November 2019. The 74 revised full papers presented were carefully reviewed and selected from total 353 submissions. The papers are organized in topical sections on data centric programming; next generation computing; social and web analytics; security in data science analytics; big data analytics.

Since the initial writing of NASA/SP-6105 in 1995 and the following revision (Rev 1) in 2007, systems engineering as a discipline at the National Aeronautics and Space Administration (NASA) has undergone rapid and continued evolution. Changes include using Model-Based Systems Engineering to improve development and delivery of products, and accommodating updates to NASA Procedural Requirements (NPR) 7123.1. Lessons learned on systems

engineering were documented in reports such as those by the NASA Integrated Action Team (NIAT), the Columbia Accident Investigation Board (CAIB), and the follow-on Diaz Report. Other lessons learned were garnered from the robotic missions such as Genesis and the Mars Reconnaissance Orbiter as well as from mishaps from ground operations and the commercial spaceflight industry. Out of these reports came the NASA Office of the Chief Engineer (OCE) initiative to improve the overall Agency systems engineering infrastructure and capability for the efficient and effective engineering of NASA systems, to produce quality products, and to achieve mission success. This handbook update is a part of that OCE-sponsored Agency-wide systems engineering initiative. In 1995, SP-6105 was initially published to bring the fundamental concepts and techniques of systems engineering to NASA personnel in a way that recognized the nature of NASA systems and the NASA environment. This revision (Rev 2) of SP-6105 maintains that original philosophy while updating the Agency's systems engineering body of knowledge, providing guidance for insight into current best Agency practices, and maintaining the alignment of the handbook with the Agency's systems engineering policy. The update of this handbook continues the methodology of the previous revision: a top-down compatibility with higher level Agency policy and a bottom-up infusion of guidance from the NASA practitioners in the field. This approach provides the opportunity to obtain best practices from across NASA and bridge the information to the established NASA systems engineering processes and to communicate principles of good practice as well as alternative approaches rather than specify a particular way to accomplish a task. The result embodied in this handbook is a top-level implementation approach on the practice of systems engineering unique to NASA. Material used for updating this handbook has been

drawn from many sources, including NPRs, Center systems engineering handbooks and processes, other Agency best practices, and external systems engineering textbooks and guides. This handbook consists of six chapters: (1) an introduction, (2) a systems engineering fundamentals discussion, (3) the NASA program/project life cycles, (4) systems engineering processes to get from a concept to a design, (5) systems engineering processes to get from a design to a final product, and (6) crosscutting management processes in systems engineering. The chapters are supplemented by appendices that provide outlines, examples, and further information to illustrate topics in the chapters. The handbook makes extensive use of boxes and figures to define, refine, illustrate, and extend concepts in the chapters. Finally, it should be noted that this handbook provides top-level guidance for good systems engineering practices; it is not intended in any way to be a directive.

NASA/SP-2016-6105 Rev2 supersedes SP-2007-6105 Rev 1 dated December, 2007.

The International Handbook on Educational Leadership and Social (In)Justice creates a first-of-its-kind international forum on conceptualizing the meanings of social justice and leadership, research approaches in studying social justice and combating social injustices, school, university and teacher leadership for social justice, advocacy and advocates for social justice, socio-cultural representations of social injustices, glocal policies, and leadership development as interventions. The Handbook is as much forward-looking as it is a retrospective review of educational research literatures on social justice from a variety of educational subfields including educational leadership, higher education academic networks, special education, health education, teacher education, professional development, policy analyses, and multicultural education. The Handbook celebrates the

promises of social justice while providing the educational leadership research community with concrete, contextualized illustrations on how to address inequities and combat social, political and economic injustices through the processes of education in societies and educational institutions around the world.

New to this edition: Up-to-date information on on-line research and computer resources. A unique four-way access system enables users of the Handbook of Technical Writing to find what they need quickly and get on with the job of writing: 1. The hundreds of entries in the body of the Handbook are alphabetically arranged, so you can flip right to the topic at hand. Words and phrases in bold type provide cross-references to related entries. 2. The topical key groups alphabetical entries and page numbers under broader topic categories. This topical table of contents allows you to check broader subject areas for the specific topic you need. 3. The checklist of the writing process summarizes the opening essay on "Five Steps to Successful Writing" in checklist form with page references to related topics, making it easy to use the Handbook as a writing text. 4. The comprehensive index provides an exhaustive listing of related and commonly confused topics, so you can easily locate information even when you don't know the exact term you're looking for.

This book is both a repertory guide to the Convention on International Civil Aviation (Chicago Convention) as well as a legal analysis of the provisions of the treaty. It traces action taken by the ICAO Assembly and the Council in the implementation of the Convention from the first ICAO Assembly in 1947 until 2012. Above all, the book offers a commentary on the functional and moral fabric of the Chicago Convention, which is not only a multilateral legal instrument that sets out basic principles of air navigation and air transport, but also serves as a moral compass that brings the

people of the world together. The teleological nature of the Chicago Convention is reflected from the outset – from its Preamble which sets the tone and philosophy of the Convention – that aviation builds friendship and understanding among all people, to its technical provisions that range from rules of the air to landing at airports and customs and immigration procedures. The book effectively demonstrates the Aristotelian principle – that rules make people good by forming habits in them. Standardization, or in other words, compliance, is the driver of the Convention that keeps aviation safe, regular, efficient and economical. To that end, this book traces and details the sustained relevance of the Chicago Convention and the efforts of ICAO and the international aviation community towards keeping air transport on track and ready for its future exponential growth, both in letter and in spirit. ?

The goal of this book is to teach undergraduate students how to use Scientific Notebook (SNB) to solve physics problems. SNB software combines word processing and mathematics in standard notation with the power of symbolic computation. As its name implies, SNB can be used as a notebook in which students set up a math or science problem, write and solve equations, and analyze and discuss their results. Written by a physics teacher with over 20 years experience, this text includes topics that have educational value, fit within the typical physics curriculum, and show the benefits of using SNB. This easy-to-read text: Provides step-by-step instructions for using Scientific Notebook (SNB) to solve physics problems Features examples in almost every section to enhance the reader's understanding of the relevant physics and to provide detailed instructions on using SNB Follows the traditional physics curriculum, so it can be used to supplement teaching at all levels of undergraduate physics Includes many problems taken from the author's class notes

and research aimed at undergraduate physics and engineering students, this text teaches readers how to use SNB to solve some everyday physics problems.

THE STORY: This comedy of Manhattan manners explores the latest topics in marriage, friendships and squandered riches. The setting: a Park Avenue penthouse. The players: a powerhouse attorney, his deliriously social wife and their closest friend, o

A look at the history and future of space exploration discusses the competition between the United States and the Soviet Union to launch a variety of surveillance, warning, reconnaissance, and weapons systems into space

Alice McDonnell Parsons was the heir to a vast fortune among Long Island's wealthy elite when she was kidnapped from Long Meadow Farm in Stony Brook in 1937. The crime shocked the nation and was front-page news for several months. J. Edgar Hoover personally assigned his best FBI agents to the case, and within a short time, Parsons's husband and their live-in housekeeper, Anna Kupryanova, had become prime suspects. Botched ransom attempts, clashes between authorities and romantic intrigue kept the investigation mired in drama. The crime remained unsolved and has captivated Long Island audiences ever since. Former Suffolk County detective Steven C. Drielak reveals previously classified FBI documents and pieces together the mystery of the Alice Parsons kidnapping.

This volume seeks to explore the complex relationship between the European Union and

International Organizations, and to fill a remarkably wide gap in existing literature on the topic. Analysing the way in which the EU engages in some of the most important international organizations, this book outlines a framework for analysis within this thriving subject of study. By demonstrating how the EU supports 'effective multilateralism' and global governance, as well as furthering developments within foreign policy, this volume adopts a novel perspective on the EU as an international player. Seeking to move the focus of study beyond the European Union as itself an international organization, contributors set out to demonstrate EU aspirations to act within international organizations. The volume's key features include: the first comprehensive study on this topic eight case studies of the EU, including its role within the UN, WTO, NATO, and the ICC contributions from both internationally renowned political scientists and economists The European Union and International Organizations will be of vital interest to students and scholars of international relations, European Politics, Political Science, and International Organisations. It will also be of interest to a wider readership including policy makers, diplomats, and journalists. The NASA Systems Engineering Handbook provides top-level guidelines for good systems engineering practices. It consists of six core chapters: Fundamentals of Systems Engineering NASA

program/project life cycles From a Concept to a Design From a Design to a Final Product Crosscutting Management Processes Special Topics in Systems Engineering The SEMP Content Outline in Appendix J provides guidance for constructing a Systems Engineering Management Plan. The topics in Appendix J can be used as a checklist for constructing a SEMP. The NASA Systems Engineering Handbook provides general guidance on systems engineering and best practices and pitfalls to avoid. This handbook describes systems engineering as it should be applied to the development and implementation of large and small NASA programs and projects. NASA has defined different life cycles that specifically address the major project categories, or product lines, which are: Flight Systems and Ground Support (FS&GS), Research and Technology (R&T), Construction of Facilities (CoF), and Environmental Compliance and Restoration (ECR). The technical content of the handbook provides systems engineering best practices that should be incorporated into all NASA product lines. For simplicity this handbook uses the FS&GS product line as an example. The specifics of FS&GS can be seen in the description of the life cycle and the details of the milestone reviews. The engineering of NASA systems requires a systematic and disciplined set of processes that are applied recursively and iteratively for the design,

development, operation, maintenance, and closeout of systems throughout the life cycle of the programs and projects. This edition is printed on high quality paper with an attractive, durable cover.

In a clear and rewarding style, Albrechts and Mandelbaum consider the challenges that the new paradigm of the Network Society creates for Urban and Regional Planning. Chapters grouped into five themes discuss theoretical and practical perspectives on the contemporary organization of social, economic, cultural, political and physical spaces. These sections are: models of the Network Society the impact of physical networks such as transport challenges for Planners raised by society's increased reliance on new technology an examination of local networks including community networks and the possibilities of setting up local networks for disaster recovery a comparison of spatial and policy networks and an exploration of the institutions involved. This book is essential reading for graduate level courses in urban studies, city and regional planning, and urban design. With its clear structure – unitary sections but a diversity of perspectives – the book can be used easily in courses such as Planning Theory, Urban Infrastructure and Public Policy.

Her study of this early conservation controversy will fascinate anyone who cares about sea turtles or the oceans in which they live.

Cortical evoked potentials are of interest primarily as tests of changing neuronal excitabilities accompanying normal brain function. The first three steps in the analysis of these complex waveforms are proper placement of electrodes for recording, the proper choice of electrical or sensory stimulus parameters, and the establishment of behavioral control. The fourth is development of techniques for reliable measurement. Measurement consists of comparison of an unknown entity with a set of standard scales or dimensions having numerical attributes in preassigned degree. A physical object can be described by the dimensions of size, mass, density, etc. In addition there are dimensions such as location, velocity, weight, hardness, etc. Some of these dimensions can be complex (e. g. size depends on three or more subsidiary coordinates), and some can be interdependent or nonorthogonal (e. g. specification of size and mass may determine density). In each dimension the unit is defined with reference to a standard physical entity, e. g. a unit of mass or length, and the result of measurement is expressed as an equivalence between the unknown and the sum of a specified number of units of that entity. The dimensions of a complex waveform are elementary waveforms from which that waveform can be built by simple addition. Any finite single-valued function of time is admissible. They are called basis functions (IO, 15), and they can be expressed

in numeric as well as geometric form.

Battle for SpaceBookthrift Company

As with many writers, Jim Christy keeps a "source file," notes, scrawled snippets of conversation, observations made on the run, photographs of people known and unknown, scraps of paper with puzzling notes written on them, receipts, matchpacks, and other assorted paraphernalia that might come in handy for a future story, article, or essay. For Mr. Christy that source file has been an old Peek Frean's tin biscuit box. For nearly forty years the author has thrown-willy-nilly, and with neither rhyme nor reason-such seemingly random items into the box. There has been absolutely no system to it; maybe, the author says, "I thought 'I'll pay more attention to this later' or, perhaps, 'I've got to check that one out some day ...give it the attention it deserves.'" Being a restless traveller, investigative journalist, and raconteur, many of these items have rich and alluring stories attached to them. The Peek Frean's cookie box has provided the essential ingredients for a fascinating assortment of highly entertaining tales.

Foster a Culture of Innovation inside Your

OrganizationIntroducing a new approach that blends the practical applications of engineering with innovative concepts and techniques, Infusing Innovation into Organizations: A Systems Engineering Approach illustrates how a company's culture influences innovation results and demonstrates how organizations c

"Both ERA and EMCC had their roots in World War II, and in postwar years both firms received major funding from the United States government. Norberg analyzes

the interaction between the two companies and the government and examines the impact of this institutional context on technological innovation. He looks at the two firms' operations after 1951 as independent subsidiaries of Remington Rand, and documents the management problems that began after Remington Rand merged with Sperry Gyroscope to form Sperry Rand in 1955"--Jacket.

Teach yourself the fundamentals of ADO.NET 4 -- one step at a time. With this practical, learn-by-doing tutorial, you get the clear guidance and hands-on examples you need to start creating datacentric applications for Windows and the Web. Discover how to: Connect to external data sources, including databases and other data formats Use ADO.NET Entity Framework to interact with underlying data stores Build Entity Framework models with graphical design tools in Microsoft Visual Studio 2010 Analyze information stored in ADO.NET with various LINQ providers Bind data directly to Windows Forms and Web Forms to drive information to users Manage disconnected or standalone data and information Go beyond the core functionality of ADO.NET to manipulate data in more advanced ways Your step by step digital content includes: Practice exercises Fully searchable online edition of this book -- with unlimited access on the Web

Library Public Relations Play A Very Dominant Role In The Library Which Is A Social Institution And Visited By A Large Number Of Clienteles Daily In Pursuit Of Research And Information. The Users In The Library Need Constant Guidance About Each Service In The Library. The Public Relations In Libraries Have Become

All The Most Essential In Modern Days Since The Reorientation Of Library Services Due To Introduction Of Computers. Initiation Of Users, Research Scholars To The Computerized Services In The Libraries Compels More For Public Relations In Order To Achieve More Efficiency In Library Services. The Editor Has Compiled Various Articles After Judicious Consideration And Selection Which Impart Indepth Insight In All The Spheres Of Public Relations In The Libraries. These Articles Have Been Gathered From Authentic Library Documents Which Have Proved Succinct And Reliable In The Study Of Library Science. The Book Will Be Highly Useful For Students Of Library Science, Teachers And Research Scholars. It Will Prove A Valuable Supplementary Reading.

An in-depth look into Mac OS X and iOS kernels Powering Macs, iPhones, iPads and more, OS X and iOS are becoming ubiquitous. When it comes to documentation, however, much of them are shrouded in mystery. Cocoa and Carbon, the application frameworks, are neatly described, but system programmers find the rest lacking. This indispensable guide illuminates the darkest corners of those systems, starting with an architectural overview, then drilling all the way to the core. Provides you with a top down view of OS X and iOS Walks you through the phases of system startup—both Mac (EFi) and mobile (iBoot) Explains how processes, threads, virtual memory, and filesystems are maintained Covers the security architecture Reviews the internal Apis used by the system—BSD and Mach Dissects the kernel, XNU, into its sub components:

Mach, the BSD Layer, and I/o kit, and explains each in detail Explains the inner workings of device drivers From architecture to implementation, this book is essential reading if you want to get serious about the internal workings of Mac OS X and iOS.

There are now compelling human epidemiological and animal experimental data that indicate the risk of developing adult-onset complex diseases and neurological disorders are influenced by persistent epigenetic adaptations in response to prenatal and early postnatal exposures to environmental factors.

Epigenetics refers to heritable changes in gene function that occur without a change in the sequence of the DNA. The main components of the epigenetic code are DNA methylation, histone modifications, and non-coding RNAs. The epigenetic programs are established as stem cell differentiate during embryogenesis, and they are normally faithfully reproduced during mitosis. Moreover, they can also be maintained during meiosis, resulting in epigenetic transgenerational disease inheritance, and also potentially introducing phenotypic variation that is selected for in the evolution of new species. The objective of this book is to provide evidence that environmental exposures during early development can alter the risk of developing medical conditions, such as asthma, autism, cancer, cardiovascular disease, diabetes, obesity, and schizophrenia later in life by modifying the epigenome.

Space Power Systems covers systems based on the three primary sources of energy of practical value, namely, solar, nuclear, and chemical sources. This book is organized into

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four parts encompassing 32 chapters that also explore the requirements for space power. Part A presents the general aspects of solar cell power systems based on the work performed for US space vehicles that are to be placed in orbit. This part specifically considers a graph showing the variation of characteristic parameters of the solar cell battery storage system as a function of flight altitude. Considerable chapters in this part are devoted to the solar cell power plant for the space vehicles ADVENT, RANGER, TIROS, and TRANSIT. The remaining chapters provide a detailed analysis of the physics and engineering of solar panel and solar mirror design. Part B contains a series of papers involving the various aspects of the Atomic Energy Commission SNAP (Systems for Nuclear Auxiliary Power) program. Many details are presented for the 3 kw, liquid metal, turbo-machinery SNAP II power systems covering subjects from the basic concept through vehicle integration and safety aspects. Significant chapters in this part discuss the compact and apparently highly reliable radioisotope thermoelectric generator. Part C highlights the methods of storing and expelling high energy cryogenic fuels, which can provide from two to five times more energy per unit weight than the silver-zinc primary battery. Part D provides an interesting and useful estimation of the many requirements that are likely to become firm for space vehicles. Space vehicle engineers, designers, and researchers will find this book invaluable.

It's a major publishing event! For nearly half a century, "The Marvelous Toy"--composed by the legendary singer/songwriter Tom Paxton--has enchanted children and adults alike. A simple tale about a mysterious, magical, and mystical toy that a father gives to his son--and that eventually gets passed down to the next generation--it celebrates a child's sense of wonder. The witty, evocative lyrics spark the imagination. No surprise, then, that the song has been

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recorded by countless major artists, from Peter, Paul, and Mary to the Chad Mitchell Trio to John Denver, and won legions of fans through the years. Paxton's marvelous song has finally become a stunning picture book, featuring incredible and wildly imaginative art by Steve Cox, illustrator of the award-winning PIGS MIGHT FLY. Parents, grandparents, friends, and family worldwide will remember this classic from their own youth--and joyfully share it with their own children.

Your hands-on, step-by-step guide to building connected, service-oriented applications. Teach yourself the essentials of Windows Communication Foundation (WCF) 4 -- one step at a time. With this practical, learn-by-doing tutorial, you get the clear guidance and hands-on examples you need to begin creating Web services for robust Windows-based business applications. Discover how to: Build and host SOAP and REST services Maintain service contracts and data contracts Control configuration and communications programmatically Implement message encryption, authentication, and authorization Manage identity with Windows CardSpace Begin working with Windows Workflow Foundation to create scalable and durable business services Implement service discovery and message routing Optimize performance with service throttling, encoding, and streaming Integrate WCF services with ASP.NET clients and enterprise services components Your Step by Step digital content includes: Practice exercises Downloadable code samples Fully searchable online edition of the book -- with unlimited access on the Web

The president's personal and passionate account of his twenty-five years in the service of humanitarian effort that won him the Nobel Peace Prize was received with the admiring respect of reviewers and readers and it will stand as the record of his brilliant post-presidential career. This is the

story of President Jimmy Carter's post-presidency, the most admired and productive in the nation's history. Through The Carter Center, which he and Rosalynn Carter founded in 1982, he has fought neglected diseases, waged peace in war zones, and built hope among some of the most forgotten and needy people in the world. Serving in more than seventy nations, Carter has led peacekeeping efforts for Ethiopia, North Korea, Haiti, Bosnia and Herzegovina, Uganda, and Sudan. With his colleagues from The Carter Center, he has monitored more than sixty-five elections in troubled nations, from Palestine to Indonesia. Carter's bold initiatives, undertaken with dedicated colleagues, have eliminated, prevented, or cured an array of diseases that have been characterized as "neglected" by the World Health Organization and that afflict tens of millions of people unnecessarily. The Carter Center has taught millions of African families how to increase the production of food grains, and Rosalynn Carter has led a vigorous war against the stigma of mental illness around the world. "Immersing ourselves among these deprived and suffering people has been a great blessing as it stretched our minds and hearts," Jimmy Carter writes. "The principles of The Carter Center have been the same ones that should characterize our nation, or any individual. They are the beliefs inherent in all the great world religions, including commitments to peace, justice, freedom, humility, forgiveness or an attempt to find accommodation with potential foes, generosity, human rights or fair treatment of others, protection of the environment, and the alleviation of suffering. This is our agenda for the future." The IEEE ICDM 2004 workshop on the Foundation of Data Mining and the IEEE ICDM 2005 workshop on the Foundation of Semantic Oriented Data and Web Mining focused on topics ranging from the foundations of data mining to new data mining paradigms. The workshops brought together both data

mining researchers and practitioners to discuss these two topics while seeking solutions to long standing data mining problems and stimulating new data mining research directions. We feel that the papers presented at these workshops may encourage the study of data mining as a scientific field and spark new communications and collaborations between researchers and practitioners. To express the visions forged in the workshop to a wider range of data mining researchers and practitioners and foster active participation in the study of foundations of data mining, we edited this volume by involving extended and updated versions of selected papers presented at those workshops as well as some other relevant contributions. The content of this book includes studies of foundations of data mining from theoretical, practical, algorithmical, and managerial perspectives. The following is a brief summary of the papers contained in this book.

"The first illustrated nautical history of the Caymans. . . . For those interested in the sea and the history of the Caribbean and for travelers who wish to learn more about the Caymans and their wonderful resources."--"Colonial Latin American Historical Review" "Fascinating information."--"Choice"

"Neatly summarizes the history and archaeology of these small islands located at the crossroads of the Caribbean, covering an array of topics as diverse as crocodiles and pirates, the simultaneous wrecking of 10 ships on a treacherous reef, the building of sloops and schooners, and the importance of sea turtles as a food source for colonists and mariners. There is a little bit of everything here, and it is all fascinating."-Kevin Crisman, Texas A&M University "A fascinating story of how the sea molded the lives of people inhabiting the small and isolated Cayman Islands. . . . The perfect blend of archaeology and history."-William Keegan, curator of Caribbean archaeology, Florida Museum of Natural History Blending elements of geography, archaeology, and

ethnography, this readable, illustrated history offers a fascinating portrait of all aspects of Caymanian nautical traditions and describes how an intrepid and independent group of islanders flourished on the frontiers of the sea. From the moment of their discovery by Europeans in 1503, the Caymans were recognized for their abundance of sea turtles, a resource that supported the colonization of the West Indies and fostered the development of a distinctive group of sea-hardened people whose nautical skills were known throughout the world. Roger C. Smith follows the mysterious tracks of the sea turtles and the mariners who hunted them, from the shores of the Caymans to the coastal lagoons of Cuba and finally to the Miskito Cays of Nicaragua. He also pursues the colonial exploits of privateers and pirates, examines the development of island catboats and schooners, and takes the reader underwater to the sites of unlucky ships that wrecked on poorly charted reefs. Roger C. Smith, state underwater archaeologist for the Florida Division of Historical Resources, is the author of "Vanguard of Empire: Ships of Exploration in the Age of Columbus" and coauthor of "An Atlas of Maritime Florida" (UPF, 1997).

This handbook consists of six core chapters: (1) systems engineering fundamentals discussion, (2) the NASA program/project life cycles, (3) systems engineering processes to get from a concept to a design, (4) systems engineering processes to get from a design to a final product, (5) crosscutting management processes in systems engineering, and (6) special topics relative to systems engineering. These core chapters are supplemented by appendices that provide outlines, examples, and further information to illustrate topics in the core chapters. The handbook makes extensive use of boxes and figures to define, refine, illustrate, and extend concepts in the core chapters without diverting the reader from the main

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information. The handbook provides top-level guidelines for good systems engineering practices; it is not intended in any way to be a directive. NASA/SP-2007-6105 Rev1 supersedes SP-6105, dated June 1995

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