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## KEY=MANAGEMENT - JAIDEN SARAI

## A GUIDE TO THE PROJECT MANAGEMENT BODY OF KNOWLEDGE (PMBOK® GUIDE) – SEVENTH EDITION AND THE STANDARD FOR PROJECT MANAGEMENT (BRAZILIAN PORTUGUESE)

Project Management Institute PMBOK&® Guide is the go-to resource for project management practitioners. The project management profession has significantly evolved due to emerging technology, new approaches and rapid market changes. Reflecting this evolution, The Standard for Project Management enumerates 12 principles of project management and the PMBOK&® Guide &– Seventh Edition is structured around eight project performance domains.This edition is designed to address practitioners' current and future needs and to help them be more proactive, innovative and nimble in enabling desired project outcomes.This edition of the PMBOK&® Guide:•Reflects the full range of development approaches (predictive, adaptive, hybrid, etc.);•Provides an entire section devoted to tailoring the development approach and processes;•Includes an expanded list of models, methods, and artifacts;•Focuses on not just delivering project outputs but also enabling outcomes; and• Integrates with PMIstandards+™ for information and standards application content based on project type, development approach, and industry sector.

## PRACTICE STANDARD FOR PROJECT RISK MANAGEMENT

Project Management Institute The Practice Standard for Project Risk Management covers risk management as it is applied to single projects only. It does not cover risk in programs or portfolios. This practice standard is consistent with the PMBOK® Guide and is aligned with other PMI practice standards. Different projects, organizations and situations require a variety of approaches to risk management and there are several specific ways to conduct risk management that are in agreement with principles of Project Risk Management as presented in this practice standard.

## DONE RIGHT

## HOW TOMORROW'S TOP LEADERS GET STUFF DONE

Work is getting whipsawed. Teams are geographically distributed, digital strategies are shattering organizational hierarchies, competition is multi-directional, and digital natives are overturning long-time company norms. Modern work needs new masters to rise up and lead.Done Right pulls from over thirty original interviews with experienced leaders across a variety of industries to show how tomorrow

## PROJECT MANAGEMENT

Penguin The practical e-guide that gives you the skills to succeed as a project manager. Discover how to improve your project management skills by defining a project brief, identifying stakeholders, and building a strong team. You'll also learn useful tips for initiating projects, setting deadlines, and managing your budgets. Essential Managers gives you a practical "how-to" approach with step-by-step instructions, tips, checklists, and "ask yourself" features showing you how to focus your energy, manage change, and make an impact. DK's Essential Managers series contains the knowledge you need to be a more effective manager and hone your management style. Whether you're new to project management or simply looking to sharpen your existing skills, this is the e-guide for you.

## PROJECT MANAGEMENT IN PRACTICE

John Wiley & Sons Project Management in Practice, 4th Edition focuses on the technical aspects of project management that are directly related to practice.

## AGILE PRACTICE GUIDE (HINDI)

Project Management Institute Agile Practice Guide – First Edition has been developed as a resource to understand, evaluate, and use agile and hybrid agile approaches. This practice guide provides guidance on when, where, and how to apply agile approaches and provides practical tools for practitioners and organizations wanting to increase agility. This practice guide is aligned with other PMI standards, including A Guide to the Project Management Body of Knowledge (PMBOK® Guide) – Sixth Edition, and was developed as

*the result of collaboration between the Project Management Institute and the Agile Alliance.*

## INFORMATION SECURITY MANAGEMENT HANDBOOK, VOLUME 2

*CRC Press Since 1993, the Information Security Management Handbook has served not only as an everyday reference for information security practitioners but also as an important document for conducting the intense review necessary to prepare for the Certified Information System Security Professional (CISSP) examination. Now completely revised and updated and i*

## PROJECT MANAGEMENT IN THE OIL AND GAS INDUSTRY

*John Wiley & Sons Oil and gas projects have special characteristics that need a different technique in project management. The development of any country depends on the development of the energy reserve through investing in oil and gas projects through onshore and offshore exploration, drilling, and increasing facility capacities. Therefore, these projects need a sort of management match with their characteristics, and project management is the main tool to achieving a successful project. Written by a veteran project manager who has specialized in oil and gas projects for years, this book focuses on using practical tools and methods that are widely and successfully used in project management for oil and gas projects. Most engineers study all subjects, but focus on project management in housing projects, administration projects, and commercial buildings or other similar projects. However, oil and gas projects have their own requirements and characteristics in management from the owners, engineering offices, and contractors' side. Not only useful to graduating engineers, new hires, and students, this volume is also an invaluable addition to any veteran project manager's library as a reference or a helpful go-to guide. Also meant to be a refresher for practicing engineers, it covers all of the project management subjects from an industrial point of view specifically for petroleum projects, making it the perfect desktop manual. Not just for project managers and students, this book is helpful to any engineering discipline or staff in sharing or applying the work of a petroleum project and is a must-have for anyone working in this industry.*

## CONSTRUCTION PROJECT ADMINISTRATION

*John Wiley & Sons Covering all the important business and legal aspects of construction management, this new edition of "Construction Project Administration" will prove an invaluable resource to owners, engineers, constructors, architects, and students. "Some of the key features include: " Coverage of computer application programs as a tool for project administration. Inclusion of a demonstration disk from Edgewater Industries to show computer applications. New charts, photos, and drawings to enhance the text discussion. Coverage of the new codes, regulations, and legal decisions to aid management decision-making. Added coverage of international business practice to reflect the globalization of the industry. Copyright © Libri GmbH. All rights reserved.*

## PROJECT MANAGEMENT

## A SYSTEMS APPROACH TO PLANNING, SCHEDULING, AND CONTROLLING

*John Wiley & Sons The landmark project management reference, now in a new edition Now in a Tenth Edition, this industry-leading project management "bible" aligns its streamlined approach to the latest release of the Project Management Institute's Project Management Body of Knowledge (PMI®'s PMBOK® Guide), the new mandatory source of training for the Project Management Professional (PMP®) Certificat-ion Exam. This outstanding edition gives students and professionals a profound understanding of project management with insights from one of the best-known and respected authorities on the subject. From the intricate framework of organizational behavior and structure that can determine project success to the planning, scheduling, and controlling processes vital to effective project management, the new edition thoroughly covers every key component of the subject. This Tenth Edition features: New sections on scope changes, exiting a project, collective belief, and managing virtual teams More than twenty-five case studies, including a new case on the Iridium Project covering all aspects of project management 400 discussion questions More than 125 multiple-choice questions (PMI, PMBOK, PMP, and Project Management Professional are registered marks of the Project Management Institute, Inc.)*

## POPULAR MECHANICS

*Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle.*

## MOTIVATIONAL ENHANCEMENT THERAPY MANUAL

## A CLINICAL RESEARCH GUIDE FOR THERAPISTS TREATING INDIVIDUALS WITH ALCOHOL ABUSE AND DEPENDENCE

## CONTEMPORARY PROJECT MANAGEMENT

## ORGANIZE, PLAN, PERFORM

*South Western, Cengage Learning Bound with envelope containing access code.*

## GOVERNANCE OF PORTFOLIOS, PROGRAMS, AND PROJECTS

## A PRACTICE GUIDE

*Project Management Institute Understanding governance as it applies to portfolios, programs, and projects is growing in importance to*

organizations, because appropriate governance is a factor in the success or failure of strategic initiatives and portfolios, as well as an organization's programs and projects. Implementing an effective governance framework can be challenging due to factors such as increasing business complexities, regulatory requirements, globalization, and rapid changes in technology and business environments. Many organizations do not have a consistent approach to portfolio, program, and project governance. PMI's Governance of Portfolios, Programs, and Projects: A Practice Guide, developed by leading experts in the field, provides guidance to organizations and practitioners on how to implement or enhance governance on portfolios, programs, and projects. This practice guide provides definitions for governance in an effort to distinguish the different levels of governance and to identify their common elements.

## INFORMATION SECURITY MANAGEMENT HANDBOOK

CRC Press Considered the gold-standard reference on information security, the Information Security Management Handbook provides an authoritative compilation of the fundamental knowledge, skills, techniques, and tools required of today's IT security professional. Now in its sixth edition, this 3200 page, 4 volume stand-alone reference is organized under the C

## INFORMATION SECURITY MANAGEMENT HANDBOOK ON CD-ROM, 2006 EDITION

CRC Press The need for information security management has never been greater. With constantly changing technology, external intrusions, and internal thefts of data, information security officers face threats at every turn. The Information Security Management Handbook on CD-ROM, 2006 Edition is now available. Containing the complete contents of the Information Security Management Handbook, this is a resource that is portable, linked and searchable by keyword. In addition to an electronic version of the most comprehensive resource for information security management, this CD-ROM contains an extra volume's worth of information that is not found anywhere else, including chapters from other security and networking books that have never appeared in the print editions. Exportable text and hard copies are available at the click of a mouse. The Handbook's numerous authors present the ten domains of the Information Security Common Body of Knowledge (CBK) ®. The CD-ROM serves as an everyday reference for information security practitioners and an important tool for any one preparing for the Certified Information System Security Professional (CISSP) ® examination. New content to this Edition: Sensitive/Critical Data Access Controls Role-Based Access Control Smartcards A Guide to Evaluating Tokens Identity Management-Benefits and Challenges An Examination of Firewall Architectures The Five "W's" and Designing a Secure Identity Based Self-Defending Network Maintaining Network Security-Availability via Intelligent Agents PBX Firewalls: Closing the Back Door Voice over WLAN Spam Wars: How to Deal with Junk E-Mail Auditing the Telephony System: Defenses against Communications Security Breaches and Toll Fraud The "Controls" Matrix Information Security Governance

## LIBRARY LITERATURE

"An index to library and information science".

## THE STANDARD FOR PROGRAM MANAGEMENT - FOURTH EDITION (HINDI)

The Standard for Program Management - Fourth Edition differs from prior editions by focusing on the principles of good program management. Program activities have been realigned to program lifecycle phases rather than topics, and the first section was expanded to address the key roles of program manager, program sponsor and program management office. It has also been updated to better align with PMI's Governance of Portfolios, Programs, and Projects: A Practice Guide.

## DATABASE MANAGEMENT SYSTEMS

McGraw-Hill College Database Management Systems provides comprehensive and up-to-date coverage of the fundamentals of database systems. Coherent explanations and practical examples have made this one of the leading texts in the field. The third edition continues in this tradition, enhancing it with more practical material. The new edition has been reorganized to allow more flexibility in the way the course is taught. Now, instructors can easily choose whether they would like to teach a course which emphasizes database application development or a course that emphasizes database systems issues. New overview chapters at the beginning of parts make it possible to skip other chapters in the part if you don't want the detail. More applications and examples have been added throughout the book, including SQL and Oracle examples. The applied flavor is further enhanced by the two new database applications chapters.

## THE HANDBOOK OF PROJECT-BASED MANAGEMENT

## LEADING STRATEGIC CHANGE IN ORGANIZATIONS

McGraw Hill Professional Discover How to Dramatically Improve the Processes of Project-Based Management in Any Organization! One of the most influential books ever written on the development of project management, The Handbook of Project-Based Management has been completely revised for a new generation of students and practitioners. The Third Edition now features a major change in focus from delivering corporate objectives to achieving strategic change, including embedding corporate change after a project is completed. Filled with over 150 illustrations, The Third Edition of The Handbook of Project-Based Management contains: A rigorous guide to project management practice for the twenty-first century Complete tools for managing project performance and process New to this edition: new focus on achieving strategic change; new information on the project life cycle; new applications to different industries; new material on strategic design, stakeholders, and organizational capability; shift in emphasis from administrative procedures to governance Inside this Cutting-Edge Guide to Twenty-First Century Project Management • The Context of Projects: • Projects for Delivering Beneficial Change • Project Success and Strategy • The People Involved • Managing Performance: • Scope • Project Organization • Quality • Cost • Time • Risk • Managing the Process: • Project Process • Project Start-Up • Project Execution and Control • Project Close-Out • Governance of Project-Based Management: • Project Governance • Program and Portfolio Management • Developing Organizational Capability • Governance of the Project-Based Organization • International Projects

## THE STARTUP OWNER'S MANUAL

## THE STEP-BY-STEP GUIDE FOR BUILDING A GREAT COMPANY

John Wiley & Sons More than 100,000 entrepreneurs rely on this book for detailed, step-by-step instructions on building successful, scalable, profitable startups. The National Science Foundation pays hundreds of startup teams each year to follow the process outlined in the book, and it's taught at Stanford, Berkeley, Columbia and more than 100 other leading universities worldwide. Why? The Startup Owner's Manual guides you, step-by-step, as you put the Customer Development process to work. This method was created by renowned Silicon Valley startup expert Steve Blank, co-creator with Eric Ries of the "Lean Startup" movement and tested and refined by him for more than a decade. This 608-page how-to guide includes over 100 charts, graphs, and diagrams, plus 77 valuable checklists that guide you as you drive your company toward profitability. It will help you: • Avoid the 9 deadly sins that destroy startups' chances for success • Use the Customer Development method to bring your business idea to life • Incorporate the Business Model Canvas as the organizing principle for startup hypotheses • Identify your customers and determine how to "get, keep and grow" customers profitably • Compute how you'll drive your startup to repeatable, scalable profits. The Startup Owner's Manual was originally published by K&S Ranch Publishing Inc. and is now available from Wiley. The cover, design, and content are the same as the prior release and should not be considered a new or updated product.

## MICROSOFT PROJECT 2016 STEP BY STEP

The quick way to learn Microsoft Project 2016! This is learning made easy. Get more done quickly with Project 2016. Jump in wherever you need answers-brisk lessons and colorful screenshots show you exactly what to do, step by step. Quickly start a new plan, build task lists, and assign resources Share your plan and track your progress Capture and fine-tune work and cost details Use Gantt charts and other views and reports to visualize project schedules Share resources across multiple plans and consolidate projects Master project management best practices while you learn Project Look up just the tasks and lessons you need

## BLACK TORRENT

MIT Press (MA) A haunting novel of Jewish, Polish, and Ukrainian resistance in German-occupied Poland.

## CONSTRUCTION EXTENSION TO THE PMBOK® GUIDE

Project Management Institute A Guide to the Project Management Body of Knowledge (PMBOK® Guide) provides generalized project management guidance applicable to most projects most of the time. In order to apply this generalized guidance to construction projects, the Project Management Institute has developed the Construction Extension to the PMBOK® Guide.This Construction Extension provides construction-specific guidance for the project management practitioner for each of the PMBOK® Guide Knowledge Areas, as well as guidance in these additional areas not found in the PMBOK® Guide:•All project resources, rather than just human resources•Project health, safety, security, and environmental management•Project financial management, in addition to cost•Management of claims in constructionThis edition of the Construction Extension also follows a new structure, discussing the principles in each of the Knowledge Areas rather than discussing the individual processes. This approach broadens the applicability of the Construction Extension by increasing the focus on the "what" and "why" of construction project management. This Construction Extension also includes discussion of emerging trends and developments in the construction industry that affect the application of project management to construction projects.

## POPULAR SCIENCE

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

## DEEP LEARNING

MIT Press An introduction to a broad range of topics in deep learning, covering mathematical and conceptual background, deep learning techniques used in industry, and research perspectives. "Written by three experts in the field, Deep Learning is the only comprehensive book on the subject." —Elon Musk, cochair of OpenAI; cofounder and CEO of Tesla and SpaceX Deep learning is a form of machine learning that enables computers to learn from experience and understand the world in terms of a hierarchy of concepts. Because the computer gathers knowledge from experience, there is no need for a human computer operator to formally specify all the knowledge that the computer needs. The hierarchy of concepts allows the computer to learn complicated concepts by building them out of simpler ones; a graph of these hierarchies would be many layers deep. This book introduces a broad range of topics in deep learning. The text offers mathematical and conceptual background, covering relevant concepts in linear algebra, probability theory and information theory, numerical computation, and machine learning. It describes deep learning techniques used by practitioners in industry, including deep feedforward networks, regularization, optimization algorithms, convolutional networks, sequence modeling, and practical methodology; and it surveys such applications as natural language processing, speech recognition, computer vision, online recommendation systems, bioinformatics, and videogames. Finally, the book offers research perspectives, covering such theoretical topics as linear factor models, autoencoders, representation learning, structured probabilistic models, Monte Carlo methods, the partition function, approximate inference, and deep generative models. Deep Learning can be used by undergraduate or graduate students planning careers in either industry or research, and by software engineers who want to begin using deep learning in their products or platforms. A website offers supplementary material for both readers and instructors.

## AGRINDEX

## CONCEPTS OF BIOLOGY

*Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand.We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.*

## BULLETIN OF THE ATOMIC SCIENTISTS

*The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic "Doomsday Clock" stimulates solutions for a safer world.*

## THE ALGORITHM DESIGN MANUAL

*Springer Science & Business Media This newly expanded and updated second edition of the best-selling classic continues to take the "mystery" out of designing algorithms, and analyzing their efficacy and efficiency. Expanding on the first edition, the book now serves as the primary textbook of choice for algorithm design courses while maintaining its status as the premier practical reference guide to algorithms for programmers, researchers, and students. The reader-friendly Algorithm Design Manual provides straightforward access to combinatorial algorithms technology, stressing design over analysis. The first part, Techniques, provides accessible instruction on methods for designing and analyzing computer algorithms. The second part, Resources, is intended for browsing and reference, and comprises the catalog of algorithmic resources, implementations and an extensive bibliography. NEW to the second edition: • Doubles the tutorial material and exercises over the first edition • Provides full online support for lecturers, and a completely updated and improved website component with lecture slides, audio and video • Contains a unique catalog identifying the 75 algorithmic problems that arise most often in practice, leading the reader down the right path to solve them • Includes several NEW "war stories" relating experiences from real-world applications • Provides up-to-date links leading to the very best algorithm implementations available in C, C++, and Java*

## SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS

## MANAGING PROJECTS WITH GNU MAKE

## THE POWER OF GNU MAKE FOR BUILDING ANYTHING

*"O'Reilly Media, Inc." The utility simply known as make is one of the most enduring features of both Unix and other operating systems. First invented in the 1970s, make still turns up to this day as the central engine in most programming projects; it even builds the Linux kernel. In the third edition of the classic Managing Projects with GNU make, readers will learn why this utility continues to hold its top position in project build software, despite many younger competitors.The premise behind make is simple: after you change source files and want to rebuild your program or other output files, make checks timestamps to see what has changed and rebuilds just what you need, without wasting time rebuilding other files. But on top of this simple principle, make layers a rich collection of options that lets you manipulate multiple directories, build different versions of programs for different platforms, and customize your builds in other ways.This edition focuses on the GNU version of make, which has deservedly become the industry standard. GNU make contains powerful extensions that are explored in this book. It is also popular because it is free software and provides a version for almost every platform, including a version for Microsoft Windows as part of the free Cygwin project. Managing Projects with GNU make, 3rd Edition provides guidelines on meeting the needs of large, modern projects. Also added are a number of interesting advanced topics such as portability, parallelism, and use with Java.Robert Mecklenburg, author of the third edition, has used make for decades with a variety of platforms and languages. In this book he zealously lays forth how to get your builds to be as efficient as possible, reduce maintenance, avoid errors, and thoroughly understand what make is doing. Chapters on C++ and Java provide makefile entries optimized for projects in those languages. The author even includes a discussion of the makefile used to build the book.*

## COLLEGE PHYSICS

*Breton Publishing Company*

## MANAGING CHANGE IN ORGANIZATIONS

## A PRACTICE GUIDE

*Project Management Institute Managing Change in Organizations: A Practice Guide is unique in that it integrates two traditionally disparate world views on managing change: organizational development/human resources and portfolio/program/project*

management. By bringing these together, professionals from both worlds can use project management approaches to effectively create and manage change. This practice guide begins by providing the reader with a framework for creating organizational agility and judging change readiness.

## APPLIED TECHNOLOGIES

## SECOND INTERNATIONAL CONFERENCE, ICAT 2020, QUITO, ECUADOR, DECEMBER 2–4, 2020, PROCEEDINGS

Springer Nature This volume constitutes the refereed proceedings of the Second International Conference on Applied Technologies, ICAT 2020, held in Quito, Ecuador, in December 2020. Due to the COVID-19 pandemic the conference was held online. The 53 papers were carefully reviewed and selected from 145 submissions. The papers are organized according to the following topics: communication; computing; e-government and e-participation; e-learning; electronics; intelligent systems; machine vision; security; technology trends.

## THE LADIES' BOOK OF ETIQUETTE, AND MANUAL OF POLITENESS

## A COMPLETE HAND BOOK FOR THE USE OF THE LADY IN POLITE SOCIETY

## REGULATORY REFORM ACT, SUPPLEMENT

## HEARINGS BEFORE THE SUBCOMMITTEE ON ADMINISTRATIVE LAW AND GOVERNMENTAL RELATIONS OF THE COMMITTEE ON THE JUDICIARY, HOUSE OF REPRESENTATIVES, NINETY-EIGHTH CONGRESS, FIRST SESSION, ON H.R. 2327 ... JUNE 8, 9, 15, 16, 22, 23, 29; JULY 13, 14, 27, AND 28, 1983

## AUTOMATE THE BORING STUFF WITH PYTHON, 2ND EDITION

## PRACTICAL PROGRAMMING FOR TOTAL BEGINNERS

No Starch Press The second edition of this best-selling Python book (over 500,000 copies sold!) uses Python 3 to teach even the technically uninclined how to write programs that do in minutes what would take hours to do by hand. There is no prior programming experience required and the book is loved by liberal arts majors and geeks alike. If you've ever spent hours renaming files or updating hundreds of spreadsheet cells, you know how tedious tasks like these can be. But what if you could have your computer do them for you? In this fully revised second edition of the best-selling classic Automate the Boring Stuff with Python, you'll learn how to use Python to write programs that do in minutes what would take you hours to do by hand--no prior programming experience required. You'll learn the basics of Python and explore Python's rich library of modules for performing specific tasks, like scraping data off websites, reading PDF and Word documents, and automating clicking and typing tasks. The second edition of this international fan favorite includes a brand-new chapter on input validation, as well as tutorials on automating Gmail and Google Sheets, plus tips on automatically updating CSV files. You'll learn how to create programs that effortlessly perform useful feats of automation to: • Search for text in a file or across multiple files • Create, update, move, and rename files and folders • Search the Web and download online content • Update and format data in Excel spreadsheets of any size • Split, merge, watermark, and encrypt PDFs • Send email responses and text notifications • Fill out online forms Step-by-step instructions walk you through each program, and updated practice projects at the end of each chapter challenge you to improve those programs and use your newfound skills to automate similar tasks. Don't spend your time doing work a well-trained monkey could do. Even if you've never written a line of code, you can make your computer do the grunt work. Learn how in Automate the Boring Stuff with Python, 2nd Edition.

## A TORRENT OF FACES

## UNDERSTANDING CRYPTOGRAPHY

## A TEXTBOOK FOR STUDENTS AND PRACTITIONERS

Springer Science & Business Media Cryptography is now ubiquitous – moving beyond the traditional environments, such as government communications and banking systems, we see cryptographic techniques realized in Web browsers, e-mail programs, cell phones, manufacturing systems, embedded software, smart buildings, cars, and even medical implants. Today's designers need a comprehensive understanding of applied cryptography. After an introduction to cryptography and data security, the authors explain the main techniques in modern cryptography, with chapters addressing stream ciphers, the Data Encryption Standard (DES) and 3DES, the Advanced Encryption Standard (AES), block ciphers, the RSA cryptosystem, public-key cryptosystems based on the discrete logarithm problem, elliptic-curve cryptography (ECC), digital signatures, hash functions, Message Authentication Codes (MACs), and methods for key establishment, including certificates and public-key infrastructure (PKI). Throughout the book, the authors focus on communicating the essentials and keeping the mathematics to a minimum, and they move quickly from explaining the foundations to describing practical implementations, including recent topics such as lightweight ciphers for RFIDs and mobile devices, and current key-length recommendations. The authors have considerable experience teaching applied cryptography to engineering and computer science students and to professionals, and they make extensive use of examples, problems, and chapter reviews, while the book's website offers slides, projects and links to further resources. This is a suitable textbook for graduate and advanced undergraduate courses and also for self-study by engineers.