

Engineering Studies Definitive Guide

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Java Programming For Developers: The Definitive Guide to Learn JDBC And Database Applications Walter de Gruyter GmbH & Co KG
A brand new collection of state-of-the-art guides to more effective supply chain management... 4 pioneering books, now in a convenient e-format, at a great price! 4 up-to-the-minute books help you build and optimize agile, flexible, efficient global supply chains – in the face of any challenge! As a supply chain or operations professional, you face unprecedented challenges in delivering the agile, resilient, efficient supply chain your company needs. This indispensable 4-book package gives you unprecedented resources, best practices, tools, and case studies for managing each of these challenges. *Global Macrotrends and Their Impact on Supply Chain Management* shows how to manage supply and demand in the face of massively disruptive emerging societal, technological, geopolitical, and environmental macro trends. You'll find a complete decision framework and practical tools, insights, and guidance for systematically mitigating new risks and building long-term competitive advantage. Step by step, you'll walk through assessing and responding to population growth, migration, urbanization; socioeconomic change, global connectivity, environmental issues, geopolitics, growing scarcity, transportation congestion, aging infrastructure, and more. Next, *Supply Chain Network Design* helps you use strategic network design techniques to drive dramatic new savings throughout your supply chain. The authors, who are experts at IBM and Northwestern University, combine rigorous principles and

practical applications, helping you optimize the right number, location, territory, and size of warehouses, plants, and production lines; and optimize product flow through even the most complex global supply chains. They help you manage tradeoffs such as cost vs. service level, improve operational decision-making through analytics; and re-optimize regularly for even greater savings. Then, *Demand and Supply Integration* shows how to implement world-class demand forecasting management, and effectively integrate it into comprehensive Demand and Supply Integration (DSI) processes. You'll learn how to recognize failures of demand/supply integration, approach Demand Forecasting as a management process, and choose and apply the best forecasting techniques. You'll discover how to thoroughly reflect market intelligence in forecasts; measure forecasting performance; implement advanced demand forecasting systems; manage Demand Reviews, and more. Finally, *The Supply Chain Management Casebook* brings together 30 up-to-date, focused case studies illuminating every aspect of modern supply chain management – from procurement to warehousing, strategy to risk management, IT to supplier selection and ethics. Contributors present key challenges in industries ranging from pharmaceuticals to fashion, and preview issues ranging from the "limits of lean" to the potential of 3-D printing. Both qualitative and quantitative cases are included; quantitative cases are supported by completed numerical solutions, and, where applicable, associated spreadsheets. From supply chain experts Chad W. Autry, Thomas J. Goldsby, John E. Bell, Michael Watson, Sara Lewis, Peter Cacioppi, Jay Jayaraman, Mark A. Moon, and Chuck Munson *Study in America: The Definitive Guide for Aspiring Students Solution Matrix* Are you considering a College Major in Engineering, but wondering whether and how to plan for a successful career? Dan Heflin is here to help, with perspectives and guidance gained from 65 years of experience. Having entered the Marine field as a wide-eyed novice, he knows how valuable it was to have the mentorship and tutelage of veteran tradesmen, designers, managers, and engineers—which eventually resulted in promotion to Director of Engineering Services. After retirement from the shipyard,

he and a uniquely qualified veteran naval architect formed an independent consulting company, offering services across a wide range of technical and management issues, which further broadened his experiences well beyond design and manufacturing. If this level of engagement and challenge sounds exciting, then this is the book for you! Both pragmatic and encouraging, Dan asks the aspiring engineer to examine personal characteristics such as depth of curiosity, tenacity, patience, aptitude for mathematics, concentration, and the ability to prioritize. Unique characteristics of different fields of engineering are reviewed, and Dan stresses the importance of sophomores and juniors reviewing their experiences to date, to confirm or change the chosen field of specialization. Dan draws upon decades of personal experience to maximize benefits and minimize disappointments in college, employment, and beyond.

Engineering Studies: The HSC course Weston, Mass. : Font & Center Press

The Definitive Guide is a practical guide to the real world of Business Cases. Its focus are the necessities of building actual Business Cases, yet without cutting short on the theoretical background as far as it is needed. The described Business Case methodology is beneficial for case builders and decision-makers and assumes no prior background in finance or business planning. For more than 15 years, Solution Matrix has helped thousands of business professionals in organizations like BMW, Cisco Systems Inc., Ericsson, SAP, and Siemens to understand the essentials of a Business Case and deliver Business Case results that score high in credibility, accuracy, and practical value. This book enables you to profit from their experience and specific Business Case method to get your budget approved. The Definitive Guide has various advantages: - 30 Case Studies from 10 different industries are enclosed - The comprehensible method is applicable to any project - A free 140 Days Trial Version of Crystal Ball(c) Oracle worth \$360 is included - You can start building your Business Case immediately, while reading the book - It is an introduction for Business Case beginners and a handbook for those more experienced in building Business Cases After having read the book you will know: - the essentials of a strong Business Case - how to prepare a Business Case scientifically - how to calculate the Return on Investment (ROI) and other financial metrics - how to measure even soft benefits of your project in monetary terms - how to validate your results statistically - how to present the Business Case convincingly to the decision-makers Content: By offering an easy example of an actual Business Case throughout, the book ensures that all parts of the method are understood profoundly. The book covers the entire process of building a solid Business Case step by step. Part I - Influence Matrix: A tool for reducing the project's complexity while grasping the most important components of the entire project in respect to the outcome which is to be measured: How to capture any complex project completely and yet structured enough so that the entire Business Case is valid, verifiable, and convincing. Part II - Financial Model: The "core" of the Business Case is about more than just filling in the right numbers. How to build a structured financial model based on the Influence Matrix? How to structure it? Which data to use? From whom is data to be obtained in which form? How to fill it into the financial model? Part III - Risk- and Sensitivity Analysis: Validating the numbers statistically is the key to a sound Business Case. Basic statistical knowledge that is necessary for building and interpreting a solid Business Case is given. What is the difference between risk and sensitivity analysis? How to

run a risk and sensitivity analysis? How to interpret it? The appendix includes a library of 30 Influence Matrices from 10 different industries. They offer direct practical guidance to similar projects you might be working on. The 140 day trial version of Crystal Ball(c) Oracle which is needed for a substantial risk and sensitivity analysis allows you to complete your solid Business Case right away. An extensive index makes this book not only a practical handbook for Business Case beginners but also for those who are already very experienced and wish to use it for checking specific details only. Our companion publication, Building Return on Investment (ROI) and Business Case Analysis Video Training on DVD, provides a practical, step by step DVD training for Business Case builders and their organizations

Data Scientist John Wiley & Sons

You will learn Python/MySQL fast, easy and fun. This book provides you with a complete MySQL guidance presented in an easy-to-follow manner. This Python MySQL book shows you how to use MySQL connector/Python to access MySQL databases. You will learn how to connect to MySQL database, and perform common database operations such as SELECT, INSERT, UPDATE and DELETE. In addition, we will show you some useful tips such as how to call MySQL stored procedures from Python, and how to work with MySQL BLOB data. Each chapter has practical examples with SQL script and screenshots available. If you go through the entire chapters, you will know how to manage MySQL databases and manipulate data using various techniques such as MySQL queries, MySQL stored procedures, database views, triggers. In the first part of the book, you will learn Basic MySQL statements including how to implement querying data, sorting data, filtering data, joining tables, grouping data, subquerying data, and setting operators. Aside from learning basic SQL statements, you will also learn step by step how to develop stored procedures in MySQL. First, we introduce you to the stored procedure concept and discuss when you should use it. Then, we show you how to use the basic elements of the procedure code such as create procedure statement, if-else, case, loop, stored procedure's parameters. In the next chapter, we will discuss the database views, how they are implemented in MySQL, and how to use them more effectively. After that, you will learn how to work with the MySQL triggers. By definition, a trigger or database trigger is a stored program executed automatically to respond to a specific event e.g., insert, update or delete occurred in a table. The database trigger is powerful tool for protecting the integrity of the data in your MySQL databases. In addition, it is useful to automate some database operations such as logging, auditing, etc. Then, you will learn about MySQL index including creating indexes, removing indexes, listing all indexes of a table and other important features of indexes in MySQL. MySQL uses indexes to quickly find rows with specific column values. Without an index, MySQL must scan the whole table to locate the relevant rows. The larger table, the slower it searches. After that, you will find a lot of useful MySQL administration techniques including MySQL server startup and shutdown, MySQL server security, MySQL database maintenance, and backup. The last chapter gives you the most commonly used MySQL functions including aggregate functions, string functions, date time functions, control flow functions, etc.

Study in America: The Definitive Guide for Aspiring Students, 2/e Outskirts Press

This book covers the JavaOne award winning JasperReports tool at length. Written by JasperForge's Teodor Danciu, Founder and Architect JasperReport, this authoritative book: Shows the power that this open source Java reporting tool has and its ability to deliver rich content onto the screen, to the printer, or into PDF, HTML, XLS, CSV and XML files Demonstrates how JasperReports can be used in a variety of Java-enabled applications, including Java EE or web applications, to generate dynamic content Teaches you how to create page-oriented, ready-to-print documents in a simple and flexible manner

The Statesman's Yearbook: 1991-92 CRC Press

The updated third edition of the definitive guide to water treatment engineering, now with all-new online content

Stantec's Water Treatment: Principles and Design provides comprehensive coverage of the principles, theory, and practice of water treatment engineering. Written by world-renowned experts in the field of public water supply, this authoritative volume covers all key aspects of water treatment engineering, including plant design, water chemistry and microbiology, water filtration and disinfection, residuals management, internal corrosion of water conduits, regulatory requirements, and more. The updated third edition of this industry-standard reference includes an entirely new chapter on potable reuse, the recycling of treated wastewater into the water supply using engineered advanced treatment technologies. QR codes embedded throughout the book connect the reader to online resources, including case studies and high-quality photographs and videos of real-world water treatment facilities. This edition provides instructors with access to additional resources via a companion website. Contains in-depth chapters on processes such as coagulation and flocculation, sedimentation, ion exchange, adsorption, and gas transfer Details membrane filtration technologies, advanced oxidation, and potable reuse Addresses ongoing environmental concerns, pharmacological agents in the water supply, and treatment strategies Describes reverse osmosis applications for brackish groundwater, wastewater, and other water sources Includes high-quality images and illustrations, useful appendices, tables of chemical properties and design data, and more than 450 exercises with worked solutions Stantec's Water Treatment: Principles and Design, Updated Third Edition remains an indispensable resource for engineers designing or operating water treatment plants, and is an essential textbook for students of civil, environmental, and water resources engineering.

Engineering Studies Volume 2 Apress

The classic reference work that provides annually updated information on the countries of the world.

Engineering Studies SPARTA PUBLISHING

Ready to unlock the power of your data? With this comprehensive guide, you'll learn how to build and maintain reliable, scalable, distributed systems with Apache Hadoop. This book is ideal for programmers looking to analyze datasets of any size, and for administrators who want to set up and run Hadoop clusters. You'll find illuminating case studies that demonstrate how Hadoop is used to solve specific problems. This third edition covers recent changes to Hadoop, including material on the new MapReduce API, as well as MapReduce 2 and its more flexible execution model (YARN). Store large datasets with the Hadoop Distributed File System (HDFS) Run distributed computations with MapReduce Use Hadoop's data and I/O building blocks for compression, data integrity, serialization (including Avro), and persistence Discover common pitfalls and advanced features for writing real-world MapReduce programs Design, build, and administer a dedicated Hadoop cluster—or run Hadoop in the cloud Load data from relational databases into HDFS, using Sqoop Perform large-scale data processing with the Pig query language Analyze datasets with Hive, Hadoop's data warehousing system Take advantage of HBase for structured and semi-structured data, and ZooKeeper for building distributed systems

The Definitive Guide to Getting Your Budget Approved! "O'Reilly Media, Inc."

This hands-on book introduces the essential topic of coding and the Python computer language to beginners and programmers of all ages. This book explains relational theory in practice, and demonstrates through two projects how you can apply it to your use of MySQL and SQL Server databases. This book covers the important requirements of teaching databases with a practical and progressive perspective. This book offers the straightforward, practical answers you need to help you do your job. This hands-on tutorial/reference/guide to MySQL and SQL Server is not only perfect for students and beginners, but it also works for experienced developers who aren't getting the most from both databases. In designing a GUI and as an IDE, you will make use Qt Designer. In the first chapter, you will learn to use several widgets in PyQt5: Display a welcome message; Use the Radio Button widget; Grouping radio buttons; Displays options in the form of a check box; and Display two groups of check boxes. In chapter two, you

will learn to use the following topics: Using Signal / Slot Editor; Copy and place text from one Line Edit widget to another; Convert data types and make a simple calculator; Use the Spin Box widget; Use scrollbars and sliders; Using the Widget List; Select a number of list items from one Widget List and display them on another Widget List widget; Add items to the Widget List; Perform operations on the Widget List; Use the Combo Box widget; Displays data selected by the user from the Calendar Widget; Creating a hotel reservation application; and Display tabular data using Table Widgets. In chapter three, you will learn: How to create the initial three tables project in the School database: Teacher, Class, and Subject tables; How to create database configuration files; How to create a Python GUI for inserting and editing tables; How to create a Python GUI to join and query the three tables. In chapter four, you will learn how to: Create a main form to connect all forms; Create a project will add three more tables to the school database: Student, Parent, and Tuition tables; Create a Python GUI for inserting and editing tables; Create a Python GUI to join and query over the three tables. In chapter five, you will join the six classes, Teacher, TClass, Subject, Student, Parent, and Tuition and make queries over those tables. In chapter six, you will create dan configure database. In this chapter, you will create Suspect table in crime database. This table has eleven columns: suspect_id (primary key), suspect_name, birth_date, case_date, report_date, suspect_status, arrest_date, mother_name, address, telephone, and photo. You will also create GUI to display, edit, insert, and delete for this table. In chapter seven, you will create a table with the name Feature_Extraction, which has eight columns: feature_id (primary key), suspect_id (foreign key), feature1, feature2, feature3, feature4, feature5, and feature6. The six fields (except keys) will have VARBINARY(MAX) data type. You will also create GUI to display, edit, insert, and delete for this table. In chapter eight, you will create two tables, Police and Investigator. The Police table has six columns: police_id (primary key), province, city, address, telephone, and photo. The Investigator table has eight columns: investigator_id (primary key), investigator_name, rank, birth_date, gender, address, telephone, and photo. You will also create GUI to display, edit, insert, and delete for both tables. In the last chapter, you will create two tables, Victim and Case_File. The Victim table has nine columns: victim_id (primary key), victim_name, crime_type, birth_date, crime_date, gender, address, telephone, and photo. The Case_File table has seven columns: case_file_id (primary key), suspect_id (foreign key), police_id (foreign key), investigator_id (foreign key), victim_id (foreign key), status, and description. You will create GUI to display, edit, insert, and delete for both tables.

The Definitive Guide to MongoDB Springer

This step-by-step guide to explore database programming using Java is ideal for people with little or no programming experience. The goal of this concise book is not just to teach you Java, but to help you think like a programmer. Each brief chapter covers the material for one week of a college course to help you practice what you've learned. As you would expect, this book shows how to build from scratch two different databases: MariaDB and SQLite using Java. In designing a GUI and as an IDE, you will make use of the NetBeans tool. In the first chapter, you will learn the basics of cryptography using Java. Here, you will learn how to write a Java program to count Hash, MAC (Message Authentication Code), store keys in a KeyStore, generate PrivateKey and PublicKey, encrypt / decrypt data, and generate and verify digital prints. In the second chapter, you will learn how to create and store salt passwords and verify them. You will create a Login table. In this case, you will see how to create a Java GUI using NetBeans to implement it. In addition to the Login table, in this chapter you will also create a Client table. In the case of the Client table, you will learn how to generate and save public and private keys into a database. You will also learn how to encrypt / decrypt data and save the results into a database. In the third chapter, you will create an Account table. This account table has the following ten fields: account_id (primary key), client_id (primarykey), account_number, account_date, account_type, plain_balance, cipher_balance, decipher_balance, digital_signature, and signature_verification. In this case, you will learn how to implement generating and verifying digital prints and storing the results into a database. In the fourth chapter, You create a table with the name of the Account, which has ten columns: account_id (primary key), client_id

(primarykey), account_number, account_date, account_type, plain_balance, cipher_balance, decipher_balance, digital_signature, and signature_verification. In the fifth chapter, you will create a Client_Data table, which has the following seven fields: client_data_id (primary key), account_id (primary_key), birth_date, address, mother_name, telephone, and photo_path. In chapter six, you will be shown how to create SQLite database and tables with Java. In chapter seven, you will be taught how to extract image features, utilizing BufferedImage class, in Java GUI. Digital image techniques to extract image features used in this chapter are grayscale, sharpening, inverting, blurring, dilation, erosion, closing, opening, vertical prewitt, horizontal prewitt, Laplacian, horizontal sobel, and vertical sobel. For readers, you can develop it to store other advanced image features based on descriptors such as SIFT and others for developing descriptor based matching. In chapter eight, you will be taught to create Java GUI to view, edit, insert, and delete Suspect table data. This table has eleven columns: suspect_id (primary key), suspect_name, birth_date, case_date, report_date, suspect_status, arrest_date, mother_name, address, telephone, and photo. In chapter nine, you will be taught to create Java GUI to view, edit, insert, and delete Feature_Extraction table data. This table has eight columns: feature_id (primary key), suspect_id (foreign key), feature1, feature2, feature3, feature4, feature5, and feature6. All six fields (except keys) will have a BLOB data type, so that the image of the feature will be directly saved into this table. In chapter ten, you will add two tables: Police_Station and Investigator. These two tables will later be joined to Suspect table through another table, File_Case, which will be built in the seventh chapter. The Police_Station has six columns: police_station_id (primary key), location, city, province, telephone, and photo. The Investigator has eight columns: investigator_id (primary key), investigator_name, rank, birth_date, gender, address, telephone, and photo. Here, you will design a Java GUI to display, edit, fill, and delete data in both tables. In chapter eleven, you will add two tables: Victim and Case_File. The File_Case table will connect four other tables: Suspect, Police_Station, Investigator and Victim. The Victim table has nine columns: victim_id (primary key), victim_name, crime_type, birth_date, crime_date, gender, address, telephone, and photo. The Case_File has seven columns: case_file_id (primary key), suspect_id (foreign key), police_station_id (foreign key), investigator_id (foreign key), victim_id (foreign key), status, and description. Here, you will also design a Java GUI to display, edit, fill, and delete data in both tables. Finally, this book is hopefully useful and can improve database programming skills for every Java/MariaDB/SQLite programmer.

Engineering Studies Pearson Education India

Effective leadership does not occur by chance. Leaders must be trained and groomed for the daunting responsibility of leading organizations. Research shows that half of the people currently in leadership positions will fail. Why they fail and what can be done to prevent failure are the main subjects of this book. It shows that effective leadership is possible and illustrates why and how, based on research and case studies from an epidemiological perspective. The epidemiological word “determinant” is used frequently, and is a word that no other book on leadership uses. Epidemiologists work from two basic principles: namely, that all diseases have determinants and that diseases do not occur randomly. In other words, there are always causes for diseases and patterns that describe how diseases spread. Effective and ineffective leadership always have determinants that are not randomly distributed; the impacts are uniformly and deeply spread throughout an organization. Like the epidemiologists, this book not only identifies leadership determinants, but also provides research-based “antidotes” at the end of each chapter, along with a summary of the most salient points in the chapter. This book offers examples of leadership and governance from the non-profit sector, businesses, public and private education, higher education, and other organizations, highlighting over 50 case studies to illustrate concepts about leadership.

SO YOU WANT TO BE AN ENGINEER Springer

The classic reference work that provides annually updated information on the countries of the world.

Engineering Studies FT Press

A definitive guide, this book focuses on the design and construction of water infrastructure projects within karst formations and provides engineering approaches for preventing and mitigating their environmental problems. It features 200 figures, investigative techniques, practical design solutions, case

studies with failure analysis, criteria prop

1991–1992 Springer Nature

This book introduces engineers to the principles and procedures necessary for infrastructure planning in rapidly developing regions. It covers the technical methods required in planning for infrastructure provision from base-line studies and problem definition through to the specification for a set of projects. The book also discusses the political factors that affect the decision-making process and demonstrates, through case studies, how the technical and political perspectives come together in the finished plan.

The Statesman's Year-Book 1990-91 Springer

The Definitive Guide to MongoDB, Second Edition, is updated for the latest version and includes all of the latest MongoDB features, including the aggregation framework introduced in version 2.2 and hashed indexes in version 2.4. MongoDB is the most popular of the "Big Data" NoSQL database technologies, and it's still growing. David Hows from 10gen, along with experienced MongoDB authors Peter Membrey and Eelco Plugge, provide their expertise and experience in teaching you everything you need to know to become a MongoDB pro. What you'll learn Set up MongoDB on all major server platforms, including Windows, Linux, OS X, and cloud platforms like Rackspace, Azure, and Amazon EC2 Work with GridFS and the new aggregation framework Work with your data using non-SQL commands Write applications using either PHP or Python Optimize MongoDB Master MongoDB administration, including replication, replication tagging, and tag-aware sharding Who this book is for Database admins and developers who need to get up to speed on MongoDB and its Big Data, NoSQL approach to dealing with data management. Table of Contents Part I: MongoDB Basics Ch. 1: Introduction to MongoDB Ch. 2: Installing MongoDB Ch. 3: The Data Model Ch. 4: Working with Data Ch. 5: GridFS Part II: Developing with MongoDB Ch. 6: PHP and MongoDB Ch. 7: Python and MongoDB Ch. 8: Advanced Queries Part III: Advanced MongoDB with Big Data Ch. 9: Database Administration Ch. 10: Optimization Ch. 11: Replication Ch. 12: Sharding

The Statesman's Year-Book 1986-87 Thomas Telford

This old edition was published in 2002. The current and final edition of this book is The Data Warehouse Toolkit: The Definitive Guide to Dimensional Modeling, 3rd Edition which was published in 2013 under ISBN: 9781118530801. The authors begin with fundamental design recommendations and gradually progress step-by-step through increasingly complex scenarios. Clear-cut guidelines for designing dimensional models are illustrated using real-world data warehouse case studies drawn from a variety of business application areas and industries, including: Retail sales and e-commerce Inventory management Procurement Order management Customer relationship management (CRM) Human resources management Accounting Financial services Telecommunications and utilities Education Transportation Health care and insurance By the end of the book, you will have mastered the full range of powerful techniques for designing dimensional databases that are easy to understand and provide fast query response. You will also learn how to create an architected framework that integrates the distributed data warehouse using standardized dimensions and facts.

Stantec's Water Treatment Walter de Gruyter GmbH & Co KG

Study in America: The Definitive Guide for Aspiring Students is a comprehensive handbook that addresses the specific needs of students aspiring to go to the USA for higher studies. It provides step-by-step advice on the application process, the tests required, choosing universities, writing application essays, obtaining financial aid and the all-important process of obtaining a U.S. visa. Unique vocabulary used in U.S. campuses, anecdotes, and real-life examples have also been discussed.

Construction Project Management Apress

This guide for managing the rigorous medical school admissions process surpasses its dry Barron's and Princeton Review counterparts by providing application strategies proven effective by both degreed professionals and current medical students. Included are secrets of the Mcat, tips on the interview, and sample personal statements. Ideal for the high school or college student seeking general guidelines for applying, there is also information for minority students, women, and older applicants. All data has been updated and new material on applying to foreign medical schools has been added.

Building Services Journal SPARTA Publishing

The Art and Science of Analyzing Software Data provides valuable information on analysis techniques often used to derive insight from software data. This book shares best practices in the field generated by leading data scientists, collected from their experience training software engineering students and practitioners to master data science. The book covers topics such as the analysis of security data, code reviews, app stores, log files, and user telemetry, among others. It covers a wide variety of techniques such as co-change analysis, text analysis, topic analysis, and concept analysis, as well as advanced topics such as release planning and generation of source code comments. It includes stories from the trenches from expert data scientists illustrating how to apply data analysis in industry and open source, present results to stakeholders, and drive decisions. Presents best practices, hints, and tips to analyze data and apply tools in data science projects Presents research methods and case studies that have emerged over the past few years to further understanding of software data Shares stories from the trenches of successful data science initiatives in industry

Pearson Education India

This book constitutes the proceedings of the XVI Multidisciplinary International Congress on Science and Technology (CIT 2021), held in Quito, Ecuador, on June 14–18, 2021, proudly organized by Universidad de las Fuerzas Armadas ESPE in collaboration with GDEON. CIT is an international event with a multidisciplinary approach that promotes the dissemination of advances in science and technology research through the presentation of keynote conferences. In CIT, theoretical, technical, or application works that are research products are presented to discuss and debate ideas, experiences, and challenges. Presenting high-quality, peer-reviewed papers, the book discusses the following topics: Artificial Intelligence Computational Modeling Data Communications Defense Engineering Innovation, Technology, and Society Managing Technology & Sustained Innovation, and Business Development Security and Cryptography Software Engineering.