

Bookmark File PDF Engineering Studies Definitive Guide

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AF7 - HAIDEN EVELYN

Explains how to use the compressed file format to distribute and collect music over the Internet, covering ripping, encoding, MP3 storage, security, legal issues, protocol, and hardware options
 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 ContentsPart 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
 Deliver huge improvements to your machine learning pipelines without spending hours fine-tuning parameters! This book's practi-

cal case-studies reveal feature engineering techniques that upgrade your data wrangling--and your ML results. Deliver huge improvements to your machine learning pipelines without spending hours fine-tuning parameters! This book's practical case-studies reveal feature engineering techniques that upgrade your data wrangling--and your ML results. Feature Engineering Bookcamp delivers hands-on experience with important techniques for optimizing your training data. As you practice your skills in cleaning and transforming data, working with unstructured image and text data, and implementing bias mitigation, you'll quickly see improvements in your end results. You'll learn by exploring real-world scenarios from different domains, including healthcare, finance, and natural language processing. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

Provides information on designing a VoIP or analog PBX using Asterisk, covering how to install, configure, and intergrate the software into an existing phone system.

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

Coding and testing are often considered separate areas of expertise. In this comprehensive guide, author and Java expert Scott Oaks takes the approach that anyone who works with Java should be equally adept at understanding how code behaves in the JVM, as well as the tunings likely to help its performance. You'll gain in-depth knowledge of Java application performance, using the Java Virtual Machine (JVM) and the Java platform, including the language and API. Developers and performance engineers alike will learn a variety of features, tools, and processes for improving the way Java 7 and 8 applications perform. Apply four principles for obtaining the best results from performance testing Use JDK tools

to collect data on how a Java application is performing Understand the advantages and disadvantages of using a JIT compiler Tune JVM garbage collectors to affect programs as little as possible Use techniques to manage heap memory and JVM native memory Maximize Java threading and synchronization performance features Tackle performance issues in Java EE and Java SE APIs Improve Java-driven database application performance

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 sepcification 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 Definitive Guide to Communicating in Any Crisis "When facing an already difficult crisis, the last thing a company needs is to make it worse through its own communications - or lack thereof. As one who has lived through a number of [business] crises and served as an independent investigator of the crises of others, I consider Steven Fink's book to be an excellent guide to avoiding collecting scar tissue of your own by learning from the scar tissue painfully collected by others."—Norman R. Augustine, former Chairman and Chief Executive Officer, Lockheed Martin There are few guarantees in business today. Unfortunately, one of them is the inevitability of a crisis having a potentially major effect on your business and your reputation. When your company finds itself in the midst of a crisis, the ripple effects can disrupt lives and business for the foreseeable future if public opinion is not properly shaped and managed. Skillfully managing the perception of the crisis determines the difference between a company's life or

death. Because in the pitched battle between perception and reality, perception always wins. Fortunately, there is a solution. Crisis communications and crisis management legend Steven Fink gives you everything you need to prepare for the inevitable—whether it’s in the form of human error, industrial accidents, criminal behavior, or natural disasters. In this groundbreaking guide, Fink provides a complete toolkit for ensuring smooth communications and lasting business success through any crisis. Crisis Communications offers proactive and preventive methods for preempting potential crises. The book reveals proven strategies for recognizing and averting damaging crisis communications issues before it’s too late. The book also offers ways to deal with mainstream and social media, use them to your advantage, and neutralize and turn around a hostile media environment Steven Fink uses his decades of expertise and experience in crisis communications to help you: UNDERSTAND AND MANAGE THE RELATIONSHIP BETWEEN PUBLIC PERCEPTION AND REALITY CHOOSE THE BEST SPOKESPERSON FOR THE CRISIS PROTECT YOUR BRAND AND REPUTATION THROUGH CRISES LARGE AND SMALL MAKE WISE, VIGILANT, AND DEFENSIBLE DECISIONS UNDER EXTREME CRISIS-INDUCED STRESS TELL THE TRUTH NO MATTER HOW TEMPTING IT MAY BE TO MISLEAD USE SOCIAL MEDIA OUTLETS TO COMMUNICATE DIRECTLY TO THE PUBLIC ABOUT A CRISIS The explosion of the Internet and, especially, social media, has added a new layer to the business leader’s skill set: the ability to handle a crisis quickly and professionally within moments of its occurrence. Livelihoods depend upon it. With in-depth case studies of Toyota, BP, and Penn State, Crisis Communications provides everything you need to successfully lead your company through today’s rocky landscape of business—where crises large and small loom around every corner, and the lives of businesses and management teams hang in the balance. PRAISE FOR STEVEN FINK’S CRISIS MANAGEMENT “Every major executive in America ought to read at least one book on crisis management. In this way, he or she might be better prepared to deal with the disasters striking organizations at an ever-increasing rate ... The question is: ‘Is Steven Fink’s book one that busy executives ought to read?’ The answer is a resounding yes.”—LOS ANGELES TIMES, FRONT PAGE SUNDAY BOOK REVIEW

As our society transforms into a data-driven one, the role of the Data Scientist is becoming more and more important. If you want

to be on the leading edge of what is sure to become a major profession in the not-too-distant future, this book can show you how. Each chapter is filled with practical information that will help you reap the fruits of big data and become a successful Data Scientist: • Learn what big data is and how it differs from traditional data through its main characteristics: volume, variety, velocity, and veracity. • Explore the different types of Data Scientists and the skillset each one has. • Dig into what the role of the Data Scientist requires in terms of the relevant mindset, technical skills, experience, and how the Data Scientist connects with other people. • Be a Data Scientist for a day, examining the problems you may encounter and how you tackle them, what programs you use, and how you expand your knowledge and know-how. • See how you can become a Data Scientist, based on where you are starting from: a programming, machine learning, or data-related background. • Follow step-by-step through the process of landing a Data Scientist job: where you need to look, how you would present yourself to a potential employer, and what it takes to follow a freelancer path. • Read the case studies of experienced, senior-level Data Scientists, in an attempt to get a better perspective of what this role is, in practice. At the end of the book, there is a glossary of the most important terms that have been introduced, as well as three appendices – a list of useful sites, some relevant articles on the web, and a list of offline resources for further reading.

In today’s environment of tight budgets and even tighter turnarounds, effective supply-chain management has become a core business requirement. Managing the Supply Chain adapts the number one supply-chain book on the college market to examine how professionals can consistently turn supply-chain strategy into a competitive advantage. This results-based book examines the experiences of today’s most accomplished companies to demonstrate supply-chain innovation at work in the marketplace.

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. Epi-

demologists 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.

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.

The definitive guide to unsaturated soil— from the world’s experts on the subject This book builds upon and substantially updates Fredlund and Rahardjo’s publication, Soil Mechanics for Unsaturated Soils, the current standard in the field of unsaturated soils. It provides readers with more thorough coverage of the state of the art of unsaturated soil behavior and better reflects the manner in which practical unsaturated soil engineering problems are solved. Retaining the fundamental physics of unsaturated soil behavior presented in the earlier book, this new publication places greater emphasis on the importance of the “soil-water characteristic curve” in solving practical engineering problems, as well as the quantification of thermal and moisture boundary conditions based on the use of weather data. Topics covered include: Theory to Practice of Unsaturated Soil Mechanics Nature and Phase Properties of Unsaturated Soil State Variables for Unsaturated Soils Measurement and Estimation of State Variables Soil-Water Characteristic Curves for Unsaturated Soils Ground Surface Moisture Flux

Boundary Conditions Theory of Water Flow through Unsaturated Soils Solving Saturated/Unsaturated Water Flow Problems Air Flow through Unsaturated Soils Heat Flow Analysis for Unsaturated Soils Shear Strength of Unsaturated Soils Shear Strength Applications in Plastic and Limit Equilibrium Stress-Deformation Analysis for Unsaturated Soils Solving Stress-Deformation Problems with Unsaturated Soils Compressibility and Pore Pressure Parameters Consolidation and Swelling Processes in Unsaturated Soils Unsaturated Soil Mechanics in Engineering Practice is essential reading for geotechnical engineers, civil engineers, and undergraduate- and graduate-level civil engineering students with a focus on soil mechanics.

The new book is the definitive text on the Objective Structured Clinical Examination (OSCE), providing an easily accessible account of the breadth and depth of experience gained worldwide from its use in a wide range of contexts and in different phases of education. The lessons learned from these diverse experiences are included throughout the text. Used globally in all phases of education in the different healthcare professions, the OSCE was first described by the lead author, Harden, in 1975 and it is now the gold standard for performance assessment. This book provides a full understanding of the basic concepts underpinning the OSCE and shows how to implement an OSCE effectively and efficiently in a variety of contexts. It includes case studies demonstrating the use of the OSCE in practice in a range of different fields. Practical guidelines and tips are provided based on the authors' extensive experience.

Perform fast interactive analytics against different data sources using the Trino high-performance distributed SQL query engine. With this practical guide, you'll learn how to conduct analytics on data where it lives, whether it's Hive, Cassandra, a relational database, or a proprietary data store. Analysts, software engineers, and production engineers will learn how to manage, use, and even develop with Trino. Initially developed by Facebook, open source Trino is now used by Netflix, Airbnb, LinkedIn, Twitter, Uber, and many other companies. Matt Fuller, Manfred Moser, and Martin Traverso show you how a single Trino query can combine data from multiple sources to allow for analytics across your entire organization. Get started: Explore Trino's use cases and learn about tools that will help you connect to Trino and query data Go deeper: Learn Trino's internal workings, including how to

connect to and query data sources with support for SQL statements, operators, functions, and more Put Trino in production: Secure Trino, monitor workloads, tune queries, and connect more applications; learn how other organizations apply Trino

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.

The Basics of Computer Arithmetic Made Enjoyable and Accessible-with a Special Program Included for Hands-on Learning "The combination of this book and its associated virtual computer is fantastic! Experience over the last fifty years has shown me that there's only one way to truly understand how computers work; and that is to learn one computer and its instruction set-no matter how simple or primitive-from the ground up. Once you fully comprehend how that simple computer functions, you can easily extrapolate to more complex machines." -Fred Hudson, retired engineer/scientist "This book-along with the virtual DIY Calculator-is an incredibly useful teaching and learning tool. The interesting trivia nuggets keep you turning the pages to see what's next. Students will have so much fun reading the text and performing the labs that they won't even realize they are learning." -Michael

Haghighi, Chairperson of the Business and Computer Information Systems Division, Calhoun Community College, Alabama "At last, a book that presents an innovative approach to the teaching of computer architecture. Written with authority and verve, witty, superbly illustrated, and enhanced with many laboratory exercises, this book is a must for students and teachers alike." -Dr. Albert Koelmans, Lecturer in Computer Engineering, University of Newcastle upon Tyne, UK, and the 2003 recipient of the EASIT-Eng. Gold Award for Innovative Teaching in Computer Engineering Packed with nuggets of information and tidbits of trivia, How Computers Do Math provides an incredibly fun and interesting introduction to the way in which computers perform their magic in general and math in particular. The accompanying CD-ROM contains a virtual computer/calculator called the DIY Calculator, and the book's step-by-step interactive laboratories guide you in the creation of a simple program to run on your DIY Calculator. How Computers Do Math can be enjoyed by non-technical individuals; students of computer science, electronics engineering, and mathematics; and even practicing engineers. All of the illustrations and interactive laboratories featured in the book are provided on the CD-ROM for use by high school, college, and university educators as lecture notes and handouts. For online resources and more information please visit the author's website at www.DIYCalculator.com.

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 in-

tegrates the distributed data warehouse using standardized dimensions and facts.

Learn how to use, deploy, and maintain Apache Spark with this comprehensive guide, written by the creators of the open-source cluster-computing framework. With an emphasis on improvements and new features in Spark 2.0, authors Bill Chambers and Matei Zaharia break down Spark topics into distinct sections, each with unique goals. You'll explore the basic operations and common functions of Spark's structured APIs, as well as Structured Streaming, a new high-level API for building end-to-end streaming applications. Developers and system administrators will learn the fundamentals of monitoring, tuning, and debugging Spark, and explore machine learning techniques and scenarios for employing MLlib, Spark's scalable machine-learning library. Get a gentle overview of big data and Spark Learn about DataFrames, SQL, and Datasets—Spark's core APIs—through worked examples Dive into Spark's low-level APIs, RDDs, and execution of SQL and DataFrames Understand how Spark runs on a cluster Debug, monitor, and tune Spark clusters and applications Learn the power of Structured Streaming, Spark's stream-processing engine Learn how you can apply MLlib to a variety of problems, including classification or recommendation

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.

A guide to using the Ghidra software reverse engineering tool suite. The result of more than a decade of research and development within the NSA, the Ghidra platform was developed to address some of the agency's most challenging reverse-engineering problems. With the open-source release of this formerly restricted tool suite, one of the world's most capable disassemblers and intuitive decompilers is now in the hands of cybersecurity defenders everywhere -- and The Ghidra Book is the one and only guide you need to master it. In addition to discussing RE techniques useful in analyzing software and malware of all kinds, the book thoroughly introduces Ghidra's components, features, and unique capacity for group collaboration. You'll learn how to:

- Navigate a disassembly
- Use Ghidra's built-in decompiler to expedite analysis
- Analyze obfuscated binaries
- Extend Ghidra to recognize new data types
- Build new Ghidra analyzers and loaders
- Add support for new processors and instruction sets
- Script Ghidra tasks to automate workflows
- Set up and use a collaborative reverse engineering environment

Designed for beginner and advanced users alike, The Ghidra Book will effectively prepare you to meet the needs and challenges of RE, so you can analyze files like a pro.

the definitive guide to the theory and practice of water treatment engineering THIS NEWLY REVISED EDITION of the classic reference provides complete, up-to-date coverage of both theory and practice of water treatment system design. The Third Edition brings the field up to date, addressing new regulatory requirements, ongoing environmental concerns, and the emergence of pharmacological agents and other new chemical constituents in water. Written by some of the foremost experts in the field of public water supply, Water Treatment, Third Edition maintains the

book's broad scope and reach, while reorganizing the material for even greater clarity and readability. Topics span from the fundamentals of water chemistry and microbiology to the latest methods for detecting constituents in water, leading-edge technologies for implementing water treatment processes, and the increasingly important topic of managing residuals from water treatment plants. Along with hundreds of illustrations, photographs, and extensive tables listing chemical properties and design data, this volume: Introduces a number of new topics such as advanced oxidation and enhanced coagulation Discusses treatment strategies for removing pharmaceuticals and personal care products Examines advanced treatment technologies such as membrane filtration, reverse osmosis, and ozone addition Details reverse osmosis applications for brackish groundwater, wastewater, and other water sources Provides new case studies demonstrating the synthesis of full-scale treatment trains A must-have resource for engineers designing or operating water treatment plants, Water Treatment, Third Edition is also useful for students of civil, environmental, and water resources engineering.

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

China's Electronics Industry is a comprehensive and current report on the technologies, manufacturing capabilities, and infrastructure that have made China a major player in the electronics industry. Not only does it cover the past, present, and future of important electronic technologies, but also the pros and cons of conducting business in China. This is an important reference for any company planning a venture in China as well as those who have already taken their first steps. It will also be of great interest to researchers and policy makers who need to know more about the role of central government in promoting strategic industries and assisting national science and technology development. Much of the data contained in the report is from 2006. No country has burst onto the economic scene as dramatically as China has in the past decade. It is the world's largest producer of many electronic products and has a leading edge semiconductor industry. This timely and comprehensive report from America's leading authori-

ty is a critical for anyone who is interested in working with China in the electronics field including business managers, academics, government institutes, foreign investors, as well as those who are interested in the past, present and future growth of China's Electronics Industry. If you are thinking about doing business in china's electronics industry, you must have this book.

The definitive guide to land development—fully updated to cover the latest industry advances. This thoroughly revised resource lays out step-by-step approaches from feasibility, through design and into permitting stages of land development projects. The book offers a holistic view of the land development process for public and private project types - including residential, commercial, mixed-use and institutional. Land Development Handbook, Fourth Edition contains the latest information on green technologies and environmentally conscious design methods. Detailed technical appendices, revised graphics, and case studies round out the content included. This edition covers: •Due diligence, planning, and zoning •Review procedures, building codes, and development costs •Environmental and historical considerations •Site analysis and preliminary engineering •Feasibility studies and site in-

spections •Conceptual and schematic design •Site selection, yield, and impact studies •Final design processes and sample plans •Components of a site plan and the approval process •Site grading, road design, and utility design •Stormwater management and hydrology •Erosion and sediment control •Permits, bonds, and construction documents •Soils, floodplain studies and stream restoration

MongoDB, a cross-platform NoSQL database, is the fastest-growing new database in the world. MongoDB provides a rich document-oriented structure with dynamic queries that you'll recognize from RDBMS offerings such as MySQL. In other words, this is a book about a NoSQL database that does not require the SQL crowd to re-learn how the database world works! MongoDB has reached 1.0 and boasts 50,000+ users. The community is strong and vibrant and MongoDB is improving at a fast rate. With scalable and fast databases becoming critical for today's applications, this book shows you how to install, administer and program MongoDB without pretending SQL never existed.

This book covers Preliminary Engineering Studies course for Year 11 students in NSW.

As your company moves data to the cloud, you need to consider a comprehensive approach to data governance, along with well-defined and agreed-upon policies to ensure you meet compliance. Data governance incorporates the ways that people, processes, and technology work together to support business efficiency. With this practical guide, chief information, data, and security officers will learn how to effectively implement and scale data governance throughout their organizations. You'll explore how to create a strategy and tooling to support the democratization of data and governance principles. Through good data governance, you can inspire customer trust, enable your organization to extract more value from data, and generate more-competitive offerings and improvements in customer experience. This book shows you how. Enable auditable legal and regulatory compliance with defined and agreed-upon data policies Employ better risk management Establish control and maintain visibility into your company's data assets, providing a competitive advantage Drive top-line revenue and cost savings when developing new products and services Implement your organization's people, processes, and tools to operationalize data trustworthiness