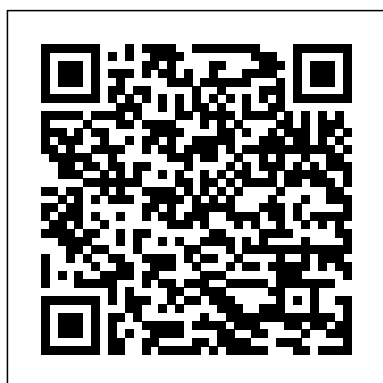


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Designing Data-Intensive Applications MIT Press  
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[Issues in Nanotechnology and Micotechnology: Biomimetic and Medical Applications: 2011 Edition](#) "O'Reilly Media, Inc."

Software engineering requires specialized knowledge of a broad spectrum of topics, including the construction of software and the platforms, applications, and environments in which the software operates as well as an understanding of the people who build and use the software. Offering an authoritative perspective, the two volumes of the Encyclopedia of Software Engineering cover the entire multidisciplinary scope of this important field. More than 200 expert contributors and reviewers from industry and academia across 21 countries provide easy-to-read entries that cover software requirements, design, construction, testing, maintenance, configuration management, quality control, and software engineering management tools and methods. Editor Phillip A. Laplante uses the most universally recognized definition of the areas of relevance to software engineering, the Software Engineering Body of Knowledge (SWEBOK®), as a template for organizing the material. Also available in an electronic format, this encyclopedia supplies software engineering students, IT professionals, researchers, managers, and scholars with unrivaled coverage of the topics that encompass this ever-changing field. Also Available Online This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for researchers, students, and librarians, including: Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options Contact Taylor and Francis for more information or to inquire

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Fundamentals of Data Engineering Packt Publishing Ltd  
Data engineering has grown rapidly in the past decade, leaving many software engineers, data scientists, and analysts looking for a comprehensive view of this practice. With this practical book, you'll learn how to plan and build systems to serve the needs of your organization and customers by evaluating the best technologies available through the framework of the data engineering lifecycle. Authors Joe Reis and Matt Housley walk you through the data engineering lifecycle and show you how to stitch together a variety of cloud technologies to serve the needs of downstream data consumers. You'll understand how to apply the concepts of data generation, ingestion, orchestration, transformation, storage, and governance that are critical in any data environment regardless of the underlying technology. This book will help you: Get a concise overview of the entire data engineering landscape Assess data engineering problems using an end-to-end framework of best practices Cut through marketing hype when choosing data technologies, architecture, and processes Use the data engineering lifecycle to design and build a robust architecture Incorporate data governance and security across the data engineering lifecycle  
*Cloud Computing for Science and Engineering* Springer Nature  
Prepare for the Azure Data Engineering certification—and an exciting new career in analytics—with this must-have study aid In the MCA Microsoft Certified Associate Azure Data Engineer Study Guide: Exam DP-203, accomplished data engineer and tech educator Benjamin Perkins delivers a hands-on, practical guide to preparing for the challenging Azure Data Engineer certification and for a new career in an exciting and growing field of tech. In the book, you'll explore all the objectives covered on the DP-203 exam while learning the job roles and responsibilities of a newly minted Azure data engineer. From integrating, transforming, and consolidating data from various structured and unstructured data systems into a structure that is suitable for building analytics solutions, you'll get up to speed quickly and efficiently with Sybex's easy-to-use study aids and tools. This Study Guide also offers: Career-ready advice for anyone hoping to ace their first data engineering job interview and excel in their first day in the field Indispensable tips and tricks to familiarize yourself with the DP-203 exam structure and help reduce test anxiety Complimentary access to Sybex's expansive online study tools, accessible across multiple devices, and offering access to hundreds of bonus practice questions, electronic flashcards, and a searchable, digital glossary of key terms A one-of-a-kind study aid designed to help you get straight to the crucial material you need to succeed on the exam and on the job, the MCA Microsoft Certified Associate Azure Data Engineer Study Guide: Exam DP-203 belongs on the bookshelves of anyone hoping to increase their data analytics skills, advance their data engineering career with an in-demand certification, or hoping to make a career change into a popular new area of tech.  
[Michiganensian McGill-Queen's Press - MQUP](#)  
Serverless revolutionizes the way organizations build and deploy software. With this hands-on guide, Java engineers will learn how to use their experience in the new world of serverless computing. You ' ll discover how this cloud computing execution model can drastically decrease the complexity in developing and operating applications while reducing costs

and time to market. Engineering leaders John Chapin and Mike Roberts guide you through the process of developing these applications using AWS Lambda, Amazon's event-driven, serverless computing platform. You'll learn how to prepare the development environment, program Lambda functions, and deploy and operate your serverless software. The chapters include exercises to help you through each aspect of the process. Get an introduction to serverless, functions as a service, and AWS Lambda. Learn how to deploy working Lambda functions to the cloud. Program Lambda functions and learn how the Lambda platform integrates with other AWS services. Build and package Java-based Lambda code and dependencies. Create serverless applications by building a serverless API and data pipeline. Test your serverless applications using automated techniques. Apply advanced techniques to build production-ready applications. Understand both the gotchas and new opportunities of serverless architecture.

Issues in Chemical Engineering and other Chemistry Specialties: 2011 Edition "O'Reilly Media, Inc."

On 19 September 1960 - the very first day of classes at Laurentian University - the Sudbury Star editorialized about what it called "the greatest experiment ever undertaken in Canadian higher education." Given the new university's bilingual and tri-cultural mandate, and religious complexities, the Star predicted there would inevitably be tensions and setbacks but that with cooperation, goodwill, and understanding, there would also be major accomplishments. This study, by five Laurentian members of faculty - four historians and one sociologist - explores the many ways in which this prognostication proved accurate, on both scores, over the next half-century.

Education Directory Springer Science & Business Media

Data is at the center of many challenges in system design today. Difficult issues need to be figured out, such as scalability, consistency, reliability, efficiency, and maintainability. In addition, we have an overwhelming variety of tools, including relational databases, NoSQL datastores, stream or batch processors, and message brokers. What are the right choices for your application? How do you make sense of all these buzzwords? In this practical and comprehensive guide, author Martin Kleppmann helps you navigate this diverse landscape by examining the pros and cons of various technologies for processing and storing data. Software keeps changing, but the fundamental principles remain the same. With this book, software engineers and architects will learn how to apply those ideas in practice, and how to make full use of data in modern applications. Peer under the hood of the systems you already use, and learn how to use and operate them more effectively. Make informed decisions by identifying the strengths and weaknesses of different tools. Navigate the trade-offs around consistency, scalability, fault tolerance, and complexity. Understand the distributed systems research upon which modern databases are built. Peek behind the scenes of major online services, and learn from their architectures.

The Black Hills Engineer John Wiley & Sons

Issues in Chemical Engineering and other Chemistry Specialties: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Chemical Engineering and other Chemistry Specialties. The editors have built Issues in Chemical Engineering and other Chemistry Specialties: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Chemical Engineering and other Chemistry Specialties in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Chemical Engineering and other Chemistry Specialties: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Fiber Optic Data Communication ScholarlyEditions

This volume constitutes the selected papers presented at the First International Conference on Advanced Network Technologies and Intelligent Computing, ANTIC 2021, held in Varanasi, India, in December 2021. Due to the COVID-19 pandemic the conference was held online.

The 61 papers presented were thoroughly reviewed and selected from 593 submissions. They are organized in topical sections on advanced network technologies and intelligent computing. ;

Catalogue and Circular (1878/79, 1884/85 "Circular") of the Illinois Industrial University (later "of the University of Illinois") ScholarlyEditions  
Data science happens in code. The ability to write reproducible, robust, scalable code is key to a data science project's success—and is absolutely essential for those working with production code. This practical book bridges the gap between data science and software engineering, and clearly explains how to apply the best practices from software engineering to data science. Examples are provided in Python, drawn from popular packages such as NumPy and pandas. If you want to write better data science code, this guide covers the essential topics that are often missing from introductory data science or coding classes, including how to: Understand data structures and object-oriented programming. Clearly and skillfully document your code. Package and share your code. Integrate data science code with a larger code base. Learn how to write APIs. Create secure code. Apply best practices to common tasks such as testing, error handling, and logging. Work more effectively with software engineers. Write more efficient, maintainable, and robust code in Python. Put your data science projects into production. And more.

Automotive Engineering Washington, U.S. Office of Education

This book is an authoritative review of current and future trends in the field of telecommunications. Written by industry experts who are developing leading-edge data communication networks, Fiber Optic Data Communication provides professionals and students alike with a look at emerging technologies and their applications. Four of the chapters have been revised from DeCusatis's best-selling book, Handbook of Fiber Optic Data Communications; the remaining eight chapters are all new. Seven helpful appendices, a glossary, and a list of technical acronyms are included. This book can stand alone or as a companion volume to DeCusatis: Handbook of Fiber Optic Data Communication, Second Edition (February 2002, ISBN: 0-12-207891-8). Includes emerging technologies such as Infiniband, 10 Gigabit Ethernet, and MPLS Optical Switching. Describes leading edge commercial products, including LEAF and MetroCore fibers, dense wavelength multiplexing, and Small Form Factor transceiver packages. Covers all major industry standards, often written by the same people who designed the standards themselves. Includes an expanded listing of references on the World Wide Web, plus hard-to-find references for international, homologation, and type approval requirements. Convenient tables of key optical datacom parameters and glossary with hundreds of definitions and acronyms. Industry buzzwords explained, including SAN, NAS, and MAN networking. Datacom market analysis and future projections from industry leading forecasters. EE Systems Engineering Today "O'Reilly Media, Inc."

Get to grips with the fundamental concepts of data engineering, and solve mock interview questions while building a strong resume and a personal brand to attract the right employers. Key Features: Develop your own brand, projects, and portfolio with expert help to stand out in the interview round. Get a quick refresher on core data engineering topics, such as Python, SQL, ETL, and data modeling. Practice with 50 mock questions on SQL, Python, and more to ace the behavioral and technical rounds. Purchase of the print or Kindle book includes a free PDF eBook. Book Description: Preparing for a data engineering interview can often get overwhelming due to the abundance of tools and technologies, leaving you struggling to prioritize which ones to focus on. This hands-on guide provides you with the essential foundational and advanced knowledge needed to simplify your learning journey. The book begins by helping you gain a clear understanding of the nature of data engineering and how it differs from organization to organization. As you progress through the chapters, you'll receive expert advice, practical tips, and real-world insights on everything from creating a resume and cover letter to networking and negotiating your salary. The chapters also offer refresher training on data engineering essentials, including data modeling, database architecture, ETL processes, data warehousing, cloud computing, big data, and machine learning. As you advance, you'll gain a holistic view by exploring continuous integration/continuous development (CI/CD), data security, and privacy. Finally, the book will help you practice case studies, mock interviews, as well as behavioral questions. By the end of this book, you will have a clear understanding of what is required to succeed in an interview for a data engineering role. What you will learn: Create maintainable and scalable code for unit testing. Understand the fundamental concepts of core data engineering tasks. Prepare with over 100 behavioral and technical interview questions. Discover data engineer archetypes and how they can help you prepare for the interview. Apply the essential concepts of Python and SQL in data engineering. Build your

personal brand to noticeably stand out as a candidate Who this book is for If you 're an aspiring data engineer looking for guidance on how to land, prepare for, and excel in data engineering interviews, this book is for you. Familiarity with the fundamentals of data engineering, such as data modeling, cloud warehouses, programming (python and SQL), building data pipelines, scheduling your workflows (Airflow), and APIs, is a prerequisite.

The Cornelian ScholarlyEditions

Lambda calculus is, directly or indirectly, the formal foundation of majority of functional programming languages, including LISP, SML, Haskell, and Scala. Being formal, it enables programs reasoning from mathematical point of view, which results sound software engineering applications. In this context, it is certainly helpful to have some knowledge of Lambda calculus so that we can naturally think programs and software applications as mathematical constructs based products, which aligns with other engineering disciplines such as Electrical Engineering, Electronics Engineering, Computer Engineering, Aeronautical and Astronautical Engineering, Mechanical Engineering, Civil Engineering, Chemical Engineering, etc. We know that time is a constraint for almost everybody and it is certainly a big constraint for professional software engineers. This concise note helps professional software engineers as well as engineering students, among others, to swiftly get started with Lambda calculus.

What Every Engineer Should Know About Data-Driven Analytics ScholarlyEditions

A guide to cloud computing for students, scientists, and engineers, with advice and many hands-on examples. The emergence of powerful, always-on cloud utilities has transformed how consumers interact with information technology, enabling video streaming, intelligent personal assistants, and the sharing of content. Businesses, too, have benefited from the cloud, outsourcing much of their information technology to cloud services. Science, however, has not fully exploited the advantages of the cloud. Could scientific discovery be accelerated if mundane chores were automated and outsourced to the cloud? Leading computer scientists Ian Foster and Dennis Gannon argue that it can, and in this book offer a guide to cloud computing for students, scientists, and engineers, with advice and many hands-on examples. The book surveys the technology that underpins the cloud, new approaches to technical problems enabled by the cloud, and the concepts required to integrate cloud services into scientific work. It covers managing data in the cloud, and how to program these services; computing in the cloud, from deploying single virtual machines or containers to supporting basic interactive science experiments to gathering clusters of machines to do data analytics; using the cloud as a platform for automating analysis procedures, machine learning, and analyzing streaming data; building your own cloud with open source software; and cloud security. The book is accompanied by a website, Cloud4SciEng.org, that provides a variety of supplementary material, including exercises, lecture slides, and other resources helpful to readers and instructors.

Canadian Electronics Engineering Elsevier

Explore the ins and outs of becoming an AWS certified DevOps professional engineer with the help of easy-to-follow practical examples and detailed explanations Key FeaturesDiscover how to implement and manage continuous delivery systems and methodologies on AWSExplore real-world scenarios and hands-on examples that will prepare you to take the DOP-C01 exam with confidenceLearn from enterprise DevOps scenarios to prepare fully for the AWS certification examBook Description The AWS Certified DevOps Engineer certification is one of the highest AWS credentials, vastly recognized in cloud computing or software development industries. This book is an extensive guide to helping you strengthen your DevOps skills as you work with your AWS workloads on a day-to-day basis. You'll begin by learning how to create and deploy a workload using the AWS code suite of tools, and then move on to adding monitoring and fault tolerance to your workload. You'll explore enterprise scenarios that'll help you to understand various AWS tools and services. This book is packed with detailed explanations of essential concepts to help you get to grips with the domains needed to pass the DevOps professional exam. As you advance, you'll delve into AWS with the help of hands-on examples and practice questions to gain a holistic understanding of the services covered in the AWS DevOps professional exam. Throughout the book, you'll find real-world scenarios that you can easily incorporate in your daily activities when working with AWS, making you a valuable asset for any organization. By the end of this AWS certification book, you'll have gained the knowledge needed to pass the AWS Certified DevOps Engineer exam, and be able to

implement different techniques for delivering each service in real-world scenarios. What you will learnAutomate your pipelines, build phases, and deployments with AWS-native toolingDiscover how to implement logging and monitoring using AWS-native toolingGain a solid understanding of the services included in the AWS DevOps Professional examReinforce security practices on the AWS platform from an exam point of viewFind out how to automatically enforce standards and policies in AWS environmentsExplore AWS best practices and anti-patternsEnhance your core AWS skills with the help of exercises and practice testsWho this book is for This book is for AWS developers and SysOps administrators looking to advance their careers by achieving the highly sought-after DevOps Professional certification. Basic knowledge of AWS as well as its core services (EC2, S3, and RDS) is needed. Familiarity with DevOps concepts such as source control, monitoring, and logging, not necessarily in the AWS context, will be helpful.

Purple, Green and Gold UM Libraries

The biopharmaceutical market has come along way since 1982 when the first biopharmaceutical product, recombinant human insulin, was launched. Over 120 such products are currently being marketed around the world including nine blockbuster drugs. The global market for biopharmaceuticals, which is currently valued at US\$41 billion, has been growing at an impressive compound annual growth rate of 21% over the previous five years. With over one third of all pipe-line products in active development are biopharmaceuticals, this segment is set to continue outperforming the total pharmaceutical market and could easily reach US\$100 billion by the end of this decade.

Laurentian University John Wiley & Sons

What Every Engineer Should Know About Data-Driven Analytics provides a comprehensive introduction to the theoretical concepts and approaches of machine learning that are used in predictive data analytics. By introducing the theory and by providing practical applications, this text can be understood by every engineering discipline. It offers a detailed and focused treatment of the important machine learning approaches and concepts that can be exploited to build models to enable decision making in different domains. Utilizes practical examples from different disciplines and sectors within engineering and other related technical areas to demonstrate how to go from data, to insight, and to decision making Introduces various approaches to build models that exploits different algorithms Discusses predictive models that can be built through machine learning and used to mine patterns from large datasets Explores the augmentation of technical and mathematical materials with explanatory worked examples Includes a glossary, self-assessments, and worked-out practice exercises Written to be accessible to non-experts in the subject, this comprehensive introductory text is suitable for students, professionals, and researchers in engineering and data science.

Cracking the Data Engineering Interview CRC Press

Strategies for building large systems that can be easily adapted for new situations with only minor programming modifications. Time pressures encourage programmers to write code that works well for a narrow purpose, with no room to grow. But the best systems are evolvable; they can be adapted for new situations by adding code, rather than changing the existing code. The authors describe techniques they have found effective--over their combined 100-plus years of programming experience--that will help programmers avoid programming themselves into corners. The authors explore ways to enhance flexibility by: Organizing systems using combinators to compose mix-and-match parts, ranging from small functions to whole arithmetics, with standardized interfaces Augmenting data with independent annotation layers, such as units of measurement or provenance Combining independent pieces of partial information using unification or propagation Separating control structure from problem domain with domain models, rule systems and pattern matching, propagation, and dependency-directed backtracking Extending the programming language, using dynamically extensible evaluators

Programming AWS Lambda MIT Press

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Instrumentation and automatic control systems.