

Camel IN ACTION



Claus Ibsen
Jonathan Anstey

Forewords by
Gregor Heltge and James Strachan

SAMPLE CHAPTER

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Arnaud Lauret



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Parallel and High Performance Computing Robert Robey, Yuliana Zamora, 2021-06-22 Complex calculations like training deep learning models or running large scale simulations can take an extremely long time. Efficient parallel programming can save hours or even days of computing time. *Parallel and High Performance Computing* shows you how to deliver faster run times, greater scalability, and increased energy efficiency to your programs by mastering parallel techniques for multicore processor and GPU hardware. About the technology: Modern computing hardware comes equipped with multicore CPUs and GPUs that can process numerous instruction sets simultaneously. Parallel computing takes advantage of this now standard computer architecture to execute multiple operations at the same time, offering the potential for applications that run faster, are more energy efficient, and can be scaled to tackle problems that demand large computational capabilities. But to get these benefits, you must change the way you design and write software. Taking advantage of the tools, algorithms, and design patterns created specifically for parallel processing is essential to creating top performing applications. About the book: *Parallel and High Performance Computing* is an irreplaceable guide for anyone who needs to maximize application performance and reduce execution time. Parallel computing experts Robert Robey and Yuliana Zamora take a fundamental approach to parallel programming, providing novice practitioners the skills needed to tackle any high performance computing project with modern CPU and GPU hardware. Get under the hood of parallel computing architecture and learn to evaluate hardware performance, scale up your resources to tackle larger problem sizes, and deliver a level of energy efficiency that makes high performance possible on hand held devices. When you're done, you'll be able to build parallel programs that are reliable, robust, and require minimal code maintenance. This book is unique in its breadth with discussions of parallel algorithms, techniques to successfully develop parallel programs, and wide coverage of the most effective languages for the CPU and GPU. The programming paradigms include MPI, OpenMP, threading, and vectorization for the CPU. For the GPU, the book covers OpenMP and OpenACC directive based approaches and the native based CUDA and OpenCL languages. What's inside: Steps for planning a new parallel project, Choosing the right data structures and algorithms, Addressing underperforming kernels and loops, The differences in CPU and GPU architecture. About the reader: For experienced programmers with proficiency in a high performance computing language such as C, C++, or Fortran. About the authors: Robert Robey has been active in the field of parallel computing for over 30 years. He works at Los Alamos National Laboratory and has previously worked at the University of New Mexico where he started up the Albuquerque High Performance Computing Center. Yuliana Zamora has lectured on efficient programming of modern hardware at national conferences based on her work developing applications running on tens of thousands of processing cores and the latest GPU architectures.

Learn Haskell by Example Philipp Hagenlocher, 2024-11-26 Haskell Bookcamp builds your skills with production quality Haskell code by creating interesting projects. As you work through each application, you will master

functional programming and dip into the language's advanced features. The book will help you learn Haskell from the ground up with real world examples rather than tedious academic exercises.

Spring Batch in Action Arnaud

Cogoluegnes, Thierry Templier, Olivier Bazoud, 2011-09-30 Summary Spring Batch in Action is an in depth guide to writing batch applications using Spring Batch. Written for developers who have basic knowledge of Java and the Spring lightweight container, the book provides both a best practices approach to writing batch jobs and comprehensive coverage of the Spring Batch framework. About the Technology Even though running batch jobs is a common task, there's no standard way to write them. Spring Batch is a framework for writing batch applications in Java. It includes reusable components and a solid runtime environment so you don't have to start a new project from scratch. And it uses Spring's familiar programming model to simplify configuration and implementation so it'll be comfortably familiar to most Java developers. About the Book Spring Batch in Action is a thorough in depth guide to writing efficient batch applications. Starting with the basics, it discusses the best practices of batch jobs along with details of the Spring Batch framework. You'll learn by working through dozens of practical, reusable examples in key areas like monitoring, tuning, enterprise integration, and automated testing. No prior batch programming experience is required. Basic knowledge of Java and Spring is assumed. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. What's Inside Batch programming from the ground up. Implementing data components. Handling errors during batch processing. Automating tedious tasks. Table of Contents PART 1 BACKGROUND Introducing Spring Batch. Spring Batch concepts. PART 2 CORE SPRING BATCH Batch configuration. Running batch jobs. Reading data. Writing data. Processing data. Implementing bulletproof jobs. Transaction management. PART 3 ADVANCED SPRING BATCH Controlling execution. Enterprise integration. Monitoring jobs. Scaling and parallel processing. Testing batch applications.

The Design of Web APIs, Second Edition

Arnaud Lauret, 2025-07-22 Learn how to design web APIs that are a delight to use and maintain. Thousands of developers have followed renowned API expert Arnaud Lauret's guidance to create APIs that are flexible, secure, and easily integrated. This new edition of the bestselling *The Design of Web APIs* covers the latest updates to the OpenAPI standard, teaches you to streamline and standardize API design decisions with rationale and automation, and gives you insights you can apply to other API styles such as gRPC. You'll quickly see how a well designed and properly documented API gives your users autonomy and saves you from constant explanations and hand holding. This fully revised second edition of *The Design of Web APIs* teaches you the principles and techniques you need to design easy to consume public and private web APIs. In it, you'll learn how to analyze requirements to identify API capabilities for versatile, reusable designs. Create HTTP based REST APIs with CRUD, batch, bulk, or long operations. Design interoperable, user friendly APIs with seamless operations and data flow. Ensure secure, efficient APIs while overcoming limitations and constraints. Modify APIs without breaking compatibility, evaluating consequences carefully. Future proof your APIs and choose effective versioning strategies. Document REST APIs using

OpenAPI and JSON Schema for seamless implementation Streamline and standardize API design decisions with rationale and automation The Design of Web APIs Second Edition teaches vital skills for gathering requirements balancing business and technical goals and constraints and adopting a consumer first mindset Each chapter is packed full of hands on examples including designing an Online Shopping API and user friendly banking operations and over seventy exercises to help your new skills stick Plus you ll explore paradigms applicable beyond REST APIs and fully describe and document your APIs with OpenAPI and JSON Schema Your web APIs will soon be easier to consume and your clients internal and external will be happier than ever About the technology Web APIs open up your software to developers exposing features and capabilities to other programs Well designed web APIs are a joy The bad ones are a nightmare with endless impact on system performance developer productivity and end user experience This book shows you how to design APIs your fellow developers will love to use About the book The Design of Web APIs Second Edition teaches you to design efficient and adaptable REST APIs This revised and rewritten second edition contains the latest updates to the OpenAPI standard along with insights you can apply to other API styles such as GraphQL Learn vital skills for gathering requirements creating easy to consume public and private web APIs and handling non backward compatible modifications and versioning What s inside Design reusable user friendly and interoperable APIs Document your APIs with OpenAPI and JSON Schema Create secure and efficient APIs by design Streamline and standardize API design decisions About the reader Written for developers with experience building and consuming APIs About the author Arnaud Lauret runs the API Handyman blog and is a frequent speaker at API conferences He currently works as an API Industry Researcher at Postman Table of Contents 1 What is API design Part 1 2 Identifying API capabilities 3 Observing operations from the REST angle 4 Representing operations with HTTP 5 Modeling data 6 Describing HTTP operations with OpenAPI 7 Describing data with JSON Schema in OpenAPI Part 2 8 Designing user friendly interoperable data 9 Designing user friendly interoperable operations 10 Designing user friendly interoperable operation flows 11 Designing user friendly interoperable APIs Part 3 12 Designing a secure API 13 Designing an efficient API 14 Adapting the API design to the context 15 Modifying an API Part 4 16 Facilitating API design decision making 17 Optimizing an OpenAPI document 18 Automating API design guidelines 19 Enriching API design artifacts A Solutions to the exercises Get a free eBook PDF or ePub from Manning as well as access to the online liveBook format and its AI assistant that will answer your questions in any language when you purchase the print book [Amazon Web Services in Action, Third Edition](#) Andreas Wittig,2023-05-30 Master essential best practices for deploying and managing applications on Amazon Web Services This revised bestseller is packed with techniques for building highly available and scalable architectures and automating deployment with Infrastructure as Code Leverage globally distributed data centers to launch virtual machines with EC2 Store and archive large volumes of data with EBS S3 and EFS Persist and query data with highly available and scalable database systems with RDS and DynamoDB Enhance performance with caching data in memory with ElastiCache

and MemoryDB Use Infrastructure as Code to automate your cloud infrastructure Secure workloads running in the cloud with VPC and IAM Build fault tolerant web applications with ALB and SQS Automate common sysadmin tasks with Lambda CLI and SDK Build cloud native applications based on containers with AppRunner ECS Fargate Thousands of developers have chosen Amazon Web Services in Action An in depth guide to AWS to help them succeed with the AWS cloud Readers love this all practical handbook for its complete introduction to computing storage and networking along with best practices for all core AWS services This revised third edition features new chapters on containerization along with a variety of AWS innovations You ll also learn how automating your infrastructure with IAC is a game changer for your cloud deployment delivering a massive boost to efficiency and quality About the Technology Amazon Web Services the leading cloud computing platform offers customers APIs for on demand access to computing services Rich in examples and best practices of how to use AWS this Manning bestseller is now released in its third revised and improved edition About the Book In Amazon Web Services in Action Third Edition An in depth guide to AWS the Wittig brothers give you a comprehensive practical introduction to deploying and managing applications on the AWS cloud platform With a sharp focus on the most important AWS tasks and services they will save you hours of unproductive time You ll learn hands on as you complete real world projects like hosting a WordPress site setting up a private cloud and deploying an app on containers What s Inside Leverage globally distributed data centers to launch virtual machines Enhance performance with caching data in memory Secure workloads running in the cloud with VPC and IAM Build fault tolerant web applications with ALB and SQS About the Reader Written for mid level developers DevOps or platform engineers architects and system administrators About the Author Andreas Wittig and Michael Wittig are software engineers and consultants focused on AWS Together they migrated the first bank in Germany to AWS in 2013

Deep Learning with PyTorch Luca Pietro Giovanni Antiga, Eli Stevens, Thomas Viehmann, 2020-07-01 We finally have the definitive treatise on PyTorch It covers the basics and abstractions in great detail I hope this book becomes your extended reference document Soumith Chintala co creator of PyTorch Key Features Written by PyTorch s creator and key contributors Develop deep learning models in a familiar Pythonic way Use PyTorch to build an image classifier for cancer detection Diagnose problems with your neural network and improve training with data augmentation Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About The Book Every other day we hear about new ways to put deep learning to good use improved medical imaging accurate credit card fraud detection long range weather forecasting and more PyTorch puts these superpowers in your hands Instantly familiar to anyone who knows Python data tools like NumPy and Scikit learn PyTorch simplifies deep learning without sacrificing advanced features It s great for building quick models and it scales smoothly from laptop to enterprise Deep Learning with PyTorch teaches you to create deep learning and neural network systems with PyTorch This practical book gets you to work right away building a tumor image classifier from scratch After covering the basics you ll learn best

practices for the entire deep learning pipeline tackling advanced projects as your PyTorch skills become more sophisticated All code samples are easy to explore in downloadable Jupyter notebooks What You Will Learn Understanding deep learning data structures such as tensors and neural networks Best practices for the PyTorch Tensor API loading data in Python and visualizing results Implementing modules and loss functions Utilizing pretrained models from PyTorch Hub Methods for training networks with limited inputs Sifting through unreliable results to diagnose and fix problems in your neural network Improve your results with augmented data better model architecture and fine tuning This Book Is Written For For Python programmers with an interest in machine learning No experience with PyTorch or other deep learning frameworks is required About The Authors Eli Stevens has worked in Silicon Valley for the past 15 years as a software engineer and the past 7 years as Chief Technical Officer of a startup making medical device software Luca Antiga is co founder and CEO of an AI engineering company located in Bergamo Italy and a regular contributor to PyTorch Thomas Viehmann is a Machine Learning and PyTorch speciality trainer and consultant based in Munich Germany and a PyTorch core developer Table of Contents PART 1 CORE PYTORCH 1 Introducing deep learning and the PyTorch Library 2 Pretrained networks 3 It starts with a tensor 4 Real world data representation using tensors 5 The mechanics of learning 6 Using a neural network to fit the data 7 Telling birds from airplanes Learning from images 8 Using convolutions to generalize PART 2 LEARNING FROM IMAGES IN THE REAL WORLD EARLY DETECTION OF LUNG CANCER 9 Using PyTorch to fight cancer 10 Combining data sources into a unified dataset 11 Training a classification model to detect suspected tumors 12 Improving training with metrics and augmentation 13 Using segmentation to find suspected nodules 14 End to end nodule analysis and where to go next PART 3 DEPLOYMENT 15 Deploying to production

OSGi in Action Karl Pauls,David Savage,Stuart McCulloch,Richard Hall,2011-04-05 What is OSGi Simply put OSGi is a standardized technology that allows developers to create the highly modular Java applications that are required for enterprise development OSGi lets you install start stop update or uninstall components without taking down your entire system The interest in OSGi based applications has exploded since major vendors like Sun Spring Oracle BEA and IBM have gotten behind the standard OSGi in Action is a comprehensive guide to OSGi with two primary goals First it provides a clear introduction to OSGi concepts with examples that are relevant both for architects and developers Then it explores numerous practical scenarios and techniques answering questions like How much of OSGi do you actually need How do you embed OSGi inside other containers What are the best practices for moving legacy systems to OSGi Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book

Serverless Applications with Node.js Slobodan Stojanovic,Aleksandar Simovic,2019-02-12 Summary Serverless Applications with Node.js walks you through building serverless apps on AWS using JavaScript Inside you will discover what Claudia.js brings to the table as you build and deploy a scalable event based serverless application based around a pizzeria that is fully integrated with AWS services including Lambda and API Gateway Each

chapter is filled with exercises examples tips and more to make sure you re ready to bring what you ve learned into your own work Foreword by Gojko Adzic Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology The benefits of cloud hosted serverless web apps are undeniable lower complexity quicker time to market and easier scalability than traditional server dependent designs And thanks to JavaScript support in AWS Lambda and powerful new serverless API tools like the Claudia js library you can build and deploy serverless apps end to end without learning a new language About the Book Serverless Applications with Node js teaches you to design and build serverless web apps on AWS using JavaScript Node and Claudia js You ll master the basics of writing AWS Lambda functions along with core serverless patterns like API Gateway Along the way you ll practice your new skills by building a working chatbot and a voice assistant with Amazon Alexa You ll also discover techniques for migrating existing apps to a serverless platform What s inside Authentication and database storage Asynchronous functions Interesting real world examples Developing serverless microservices About the Reader For web developers comfortable with JavaScript and Node js About the Author Slobodan Stojanovi and Aleksandar Simovi are AWS Serverless Heroes and core contributors to the Claudia js project They are also coauthors of Desole an open source serverless errortracking tool and the lead developers of Claudia Bot Builder Table of Contents PART 1 Serverless pizzeria Introduction to serverless with Claudia Building your first serverless API Asynchronous work is easy we Promise Pizza delivery Connecting an external service Houston we have a problem Level up your API Working with files PART 2 Let s talk When pizza is one message away Chatbots Typing Async and delayed responses Jarvis I mean Alexa order me a pizza Paying for pizza Migrating to serverless Real world case studies appendix A Installation and configuration appendix B Facebook Messenger Twilio and Alexa configuration appendix C Stripe and MongoDB setup appendix D The pizza recipe

Knowledge Graphs and LLMs in Action Alessandro Negro,Vlastimil Kus,Giuseppe Futia,Fabio Montagna,2025-11-18 Combine knowledge graphs with large language models to deliver powerful reliable and explainable AI solutions Knowledge graphs model relationships between the objects events situations and concepts in your domain so you can readily identify important patterns in your own data and make better decisions Paired up with large language models they promise huge potential for working with structured and unstructured enterprise data building recommendation systems developing fraud detection mechanisms delivering customer service chatbots or more This book provides tools and techniques for efficiently organizing data modeling a knowledge graph and incorporating KGs into the functioning of LLMs and vice versa In Knowledge Graphs and LLMs in Action you will learn how to Model knowledge graphs with an iterative top down approach based in business needs Create a knowledge graph starting from ontologies taxonomies and structured data Build knowledge graphs from unstructured data sources using LLMs Use machine learning algorithms to complete your graphs and derive insights from it Reason on the knowledge graph and build KG powered RAG systems for LLMs In Knowledge Graphs and LLMs in Action you ll discover the theory of knowledge graphs then put them

into practice with LLMs to build working intelligence systems You'll learn to create KGs from first principles go hands on to develop advisor applications for real world domains like healthcare and finance build retrieval augmented generation for LLMs and more About the technology Using knowledge graphs with LLMs reduces hallucinations enables explainable outputs and supports better reasoning By naturally encoding the relationships in your data knowledge graphs help create AI systems that are more reliable and accurate even for models that have limited domain knowledge About the book Knowledge Graphs and LLMs in Action shows you how to introduce knowledge graphs constructed from structured and unstructured sources into LLM powered applications and RAG pipelines Real world case studies for domain specific applications from healthcare to financial crime detection illustrate how this powerful pairing works in practice You'll especially appreciate the expert insights on knowledge representation and reasoning strategies What's inside Design knowledge graphs for real world needs Build KGs from structured and unstructured data Apply machine learning to enrich complete and analyze graphs Pair knowledge graphs with RAG systems About the reader For ML and AI engineers data scientists and data engineers Examples in Python About the author Alessandro Negro is Chief Scientist at GraphAware and author of Graph Powered Machine Learning Vlastimil Kus Giuseppe Futia and Fabio Montagna are seasoned ML and AI professionals specializing in Knowledge Graphs Large Language Models and Graph Neural Networks Table of Contents Part 1 1 Knowledge graphs and LLMs A killer combination 2 Intelligent systems A hybrid approach Part 2 3 Create your first knowledge graph from ontologies 4 From simple networks to multisource integration Part 3 5 Extracting domain specific knowledge from unstructured data 6 Building knowledge graphs with large language models 7 Named entity disambiguation 8 NED with open LLMs and domain ontologies Part 4 9 Machine learning on knowledge graphs A primer approach 10 Graph feature engineering Manual and semiautomated approaches 11 Graph representation learning and graph neural networks 12 Node classification and link prediction with GNNs Part 5 13 Knowledge graph powered retrieval augmented generation 14 Asking a KG questions with natural language 15 Building a QA agent with LangGraph Get a free eBook PDF or ePub from Manning as well as access to the online liveBook format and its AI assistant that will answer your questions in any language when you purchase the print book

Micro Frontends in Action Michael Geers, 2020-08-25 Micro Frontends in Action teaches you to apply the microservices approach to the frontend Summary Browser based software can quickly become complex and difficult to maintain especially when it's implemented as a large single page application By adopting the micro frontends approach and designing your web apps as systems of features you can deliver faster feature development easier upgrades and pick and choose the technology you use in your stack Micro Frontends in Action is your guide to simplifying unwieldy frontends by composing them from small well defined units Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Micro frontends deliver the same flexibility and maintainability to browser based applications that microservices provide for backend systems You design your project as a set of standalone

components that include their own interfaces logic and storage Then you develop these mini applications independently and compose them in the browser About the Book Micro Frontends in Action teaches you to apply the microservices approach to the frontend You ll start with the core micro frontend design ideas Then you ll build an e commerce application working through practical issues like server side and client side composition routing and maintaining a consistent look and feel Finally you ll explore team workflow patterns that maximize the benefit of developing application components independently What s Inside Create a unified frontend from independent applications Combine JavaScript code from multiple frameworks Browser and server side composition and routing Implement effective dev teams and project workflow About the Reader For web developers software architects and team leaders About the Author Michael Geers is a software developer specializing in building user interfaces Table of Contents PART 1 GETTING STARTED WITH MICRO FRONTENDS 1 What are micro frontends 2 My first micro frontends project PART 2 ROUTING COMPOSITION AND COMMUNICATION 3 Composition with Ajax and server side routing 4 Server side composition 5 Client side composition 6 Communication patterns 7 Client side routing and the application shell 8 Composition and universal rendering 9 Which architecture fits my project PART 3 HOW TO BE FAST CONSISTENT AND EFFECTIVE 10 Asset loading 11 Performance is key 12 User interface and design system 13 Teams and boundaries 14 Migration local development and testing

Practical Text Mining with Perl Roger Bilisoly, 2011-09-20 Provides readers with the methods algorithms and means to perform text mining tasks This book is devoted to the fundamentals of text mining using Perl an open source programming tool that is freely available via the Internet www.perl.org It covers mining ideas from several perspectives statistics data mining linguistics and information retrieval and provides readers with the means to successfully complete text mining tasks on their own The book begins with an introduction to regular expressions a text pattern methodology and quantitative text summaries all of which are fundamental tools of analyzing text Then it builds upon this foundation to explore Probability and texts including the bag of words model Information retrieval techniques such as the TF IDF similarity measure Concordance lines and corpus linguistics Multivariate techniques such as correlation principal components analysis and clustering Perl modules German and permutation tests Each chapter is devoted to a single key topic and the author carefully and thoughtfully introduces mathematical concepts as they arise allowing readers to learn as they go without having to refer to additional books The inclusion of numerous exercises and worked out examples further complements the book s student friendly format Practical Text Mining with Perl is ideal as a textbook for undergraduate and graduate courses in text mining and as a reference for a variety of professionals who are interested in extracting information from text documents

iBATIS in Action Clinton Begin, Brandon R. Goodin, Larry Meadors, 2006-12-31 iBATIS in Action teaches Java developers and architects how to use the iBATIS framework to map relational databases to object oriented programs Written by the creator of iBATIS this practical book presents patterns and solutions that readers can apply immediately iBATIS in Action shows Java developers how to

tackle the problem of data persistence using the elegant iBATIS framework iBATIS helps developers solve the problem of connecting or mapping relational databases to object oriented code An extensive running example presents reusable iBATIS patterns and common solutions The sample application shows where iBATIS fits in a typical web application as well as how iBATIS integrates with other popular frameworks like Struts iBATIS in Action focuses on solving existing problems without introducing new ones In addition to showing what iBATIS does iBATIS in Action also shows how iBATIS solves problems Readers explore the driving design philosophy behind iBATIS as presented by iBATIS creator Clinton Begin Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book

Elasticsearch in Action, Second Edition Madhusudhan Konda, 2024-01-02 Build powerful production ready search applications using the incredible features of Elasticsearch In *Elasticsearch in Action Second Edition* you will discover Architecture concepts and fundamentals of Elasticsearch Installing configuring and running Elasticsearch and Kibana Creating an index with custom settings Data types mapping fundamentals and templates Fundamentals of text analysis and working with text analyzers Indexing deleting and updating documents Indexing data in bulk and reindexing and aliasing operations Learning search concepts relevancy scores and similarity algorithms *Elasticsearch in Action Second Edition* teaches you to build scalable search applications using Elasticsearch This completely new edition explores Elasticsearch fundamentals from the ground up You ll deep dive into design principles search architectures and Elasticsearch s essential APIs Every chapter is clearly illustrated with diagrams and hands on examples You ll even explore real world use cases for full text search data visualizations and machine learning Plus its comprehensive nature means you ll keep coming back to the book as a handy reference Foreword by Shay Banon About the technology Create fully professional grade search engines with Elasticsearch and Kibana Rewritten for the latest version of Elasticsearch this practical book explores Elasticsearch s high level architecture reveals infrastructure patterns and walks through the search and analytics capabilities of numerous Elasticsearch APIs About the book *Elasticsearch in Action Second Edition* teaches you how to add modern search features to websites and applications using Elasticsearch 8 In it you ll quickly progress from the basics of installation and configuring clusters to indexing documents advanced aggregations and putting your servers into production You ll especially appreciate the mix of technical detail with techniques for designing great search experiences What s inside Understanding search architecture Full text and term level search queries Analytics and aggregations High level visualizations in Kibana Configure scale and tune clusters About the reader For application developers comfortable with scripting and command line applications About the author Madhusudhan Konda is a full stack lead engineer architect mentor and conference speaker He delivers live online training on Elasticsearch and the Elastic Stack Table of Contents 1 Overview 2 Getting started 3 Architecture 4 Mapping 5 Working with documents 6 Indexing operations 7 Text analysis 8 Introducing search 9 Term level search 10 Full text searches 11 Compound queries 12 Advanced search 13 Aggregations 14 Administration 15 Performance

and troubleshooting **Hello Swift!** Puneet Bakshi,Tanmay Bakshi,2019-04-19 Summary Hello Swift is a how to guide to programming iOS Apps with the Swift language written from a kid s perspective This approachable well illustrated step by step guide takes you from beginning programming concepts all the way through developing complete apps Adults will like it too Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology It s fun to play games and explore new things on your iPhone How amazing would it be to create your own apps With a little practice you can Apple s Swift language along with special coding playgrounds and an easy to use programming environment make it easier than ever Take it from author Tanmay Bakshi who started programming when he was just five years old About the Book His book Hello Swift iOS app programming for kids and other beginners teaches you how to write apps for iPhones and iOS devices step by step starting with your first line of Swift code Packed with dozens of apps and special exercises the book will teach you how to program by writing games solving puzzles and exploring what your iPhone can do Hello Swift gets you started Where you go next is up to you What s inside Crystal clear explanations anyone can understand Kid friendly examples including games and puzzles Learn by doing you ll build dozens of small apps Exercises that encourage critical thinking About the Reader Written for kids who want to learn how to program Psst Adults like it too About the Author Tanmay Bakshi had his first app on the iOS App Store at the age of nine He s now the youngest IBM Champion a Cloud Advisor Watson Developer TED Speaker and Manning author Table of Contents Get ready to build apps with Swift Create your first app Your first real Swift code using variables I O laboratory Computers make decisions too Let computers do repetitive work Knitting variables into arrays and dictionaries Reuse your code Clean it with function detergent Reduce your code Use less do more with class detergent Reading and writing files Frameworks Bookshelves of classes SpriteKit Fun animation time Time to watch your WatchKit code Continuing your journey with Swift **Run Grow**

Transform Steven Bell,2017-07-27 Shingo Prize winning author Steve Bell and other thought leaders show you how guiding you to more effectively align people and purpose promote enterprise agility and leverage transformative IT capabilities to create market differentiating value for your customers Combining research and insight with practical examples and in depth case studies that can be put to immediate use Run Grow Transform Integrating Business and Lean IT is a must read for leaders and senior managers from all disciplines Type-Driven Development with Idris Edwin Brady,2017-03-13 Summary

Type Driven Development with Idris written by the creator of Idris teaches you how to improve the performance and accuracy of your programs by taking advantage of a state of the art type system This book teaches you with Idris a language designed to support type driven development Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Stop fighting type errors Type driven development is an approach to coding that embraces types as the foundation of your code essentially as built in documentation your compiler can use to check data relationships and other assumptions With this approach you can define specifications early in development and

write code that's easy to maintain test and extend Idris is a Haskell like language with first class dependent types that's perfect for learning type driven programming techniques you can apply in any codebase About the Book Type Driven Development with Idris teaches you how to improve the performance and accuracy of your code by taking advantage of a state of the art type system In this book you'll learn type driven development of real world software as well as how to handle side effects interaction state and concurrency By the end you'll be able to develop robust and verified software in Idris and apply type driven development methods to other languages What's Inside Understanding dependent types Types as first class language constructs Types as a guide to program construction Expressing relationships between data About the Reader Written for programmers with knowledge of functional programming concepts About the Author Edwin Brady leads the design and implementation of the Idris language Table of Contents PART 1 INTRODUCTION Overview Getting started with Idris PART 2 CORE IDRIS Interactive development with types User defined data types Interactive programs input and output processing Programming with first class types Interfaces using constrained generic types Equality expressing relationships between data Predicates expressing assumptions and contracts in types Views extending pattern matching PART 3 IDRIS AND THE REAL WORLD Streams and processes working with infinite data Writing programs with state State machines verifying protocols in types Dependent state machines handling feedback and errors Type safe concurrent programming

Essential Guide to Qualitative Methods in Organizational Research Catherine Cassell, Gillian Symon, 2004-04-28 Essential Guide to Qualitative Methods in Organizational Research is an excellent resource for students and researchers in the areas of organization studies management research and organizational psychology bringing together in one volume the range of methods available for undertaking qualitative data collection and analysis The volume includes 30 chapters each focusing on a specific technique The chapters cover traditional research methods analysis techniques and interventions as well as the latest developments in the field Each chapter reviews how the method has been used in organizational research discusses the advantages and disadvantages of using the method and presents a case study example of the method in use A list of further reading is supplied for those requiring additional information about a given method The comprehensive and accessible nature of this collection will make it an essential and lasting handbook for researchers and students studying organizations

Design Charts for Open-channel Flow United States. Federal Highway Administration, 1979 The design of a highway drainage channel to carry a given discharge is accomplished in two parts The first part of the design involves the computation of a channel section which will carry the design discharge on the available slope This chapter briefly discusses the principles of flow in open channels and the use of the Manning equation for computing the channel capacity The second part of the design is the determination of the degree of protection required to prevent erosion in the drainage channel This can be done by computing the velocity in the channel at the design discharge using the Manning equation and comparing the calculated velocity with that permissible for the type of channel lining used A change in the type of channel lining will require

a change in channel size unless both linings have the same roughness coefficient *NBS Special Publication* ,1968

Social Psychology Robbie Sutton, Karen Douglas, 2019-11-12 The eagerly anticipated second edition of this popular textbook captures the excitement and relevance to everyday life of the fascinating and fast moving field of social psychology This book is a comprehensive and lively guide to the subject that extensively reappraises classic studies highlights cutting edge areas of research and provides fascinating examples of how social psychological theory and research apply to a wide range of real world issues such as fake news internet addiction and cyberbullying Innovative interactive features including exploring further activities applying social psychology exercises and student project spotlights place the student experience at the heart of this book Its engaging and inclusive approach helps students to develop a strong and nuanced understanding of key topics in social psychology and also encourages broader skills that will help not only in their studies but their future careers This is the ideal textbook for students studying social psychology New to this Edition Thoroughly revised to highlight the most up to date research in the discipline and re appraise classic studies theories and perspectives on topics such as obedience bystander intervention and the Stanford Prison Experiment The introductory chapter includes a new guide to critical thinking which outlines theory and research on what critical thinking involves and provides useful guidance for students on how to become effective critical thinkers Important coverage of the reproducibility of social psychological research More examples of how social psychological theory and research apply to current real world issues such as fake news internet addiction human animal relations intergroup conflict cyberbullying and politics Up to date coverage of the impact of online communication and social media on social psychological phenomena A distinctive final chapter summarising key points of wisdom in social psychology and skills that students can gain from their studies Accompanying online resources for this title can be found at [bloomsburyonlineresources.com/social-psychology](https://www.bloomsburyonlineresources.com/social-psychology) 2e These resources are designed to support teaching and learning when using this textbook and are available at no extra cost

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