Camel
IN ACTION

Claus Ibsen
Jonathan Anstey

Forewords by
Gregor Hohpe and James Strachan

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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   Hydraulic Design Series United States. Bureau of Public Roads,1961   **Portlets in Action** Ashish Sarin,2011-09-15 Summary Portlets in Action is a comprehensive hands on guide to building portlet driven applications in Java Covers Portlet 2 0 Spring 3 0 Portlet MVC WSRP 2 0 Portlet Bridges Ajax Comet Liferay GateIn Spring JDBC and Hibernate About the Technology Portlets are the small Java applications that run within a portal Good portlets work independently and also communicate fluently with the portal other portlets as well as outside servers and information sources Using Java s Portlet 2 0 API and portal servers like Liferay you can build flexible stable business portals without the design overhead required by other application styles About the Book Portlets in Action is a comprehensive guide to building portlet driven applications in Java It teaches portlet development hands on as you develop a portal that incorporates most key features of the Portlet 2 0 API And because portals and portlets are so flexible the accompanying source code can be easily adapted and reused Along the way you ll learn how to work with key web frameworks like Spring 3 0 Portlet MVC and DWR Written for Java developers No prior experience with portlets required 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 Complete coverage of the Portlet 2 0 API Spring 3 0 Portlet MVC and the Liferay portal server Portal design best practices Reusable source code Table of Contents PART 1 GETTING STARTED WITH PORTLET DEVELOPMENT Introducing portals and portlets The portlet lifecycle Portlet 2 0 API portlet objects and container runtime options Portlet 2 0 API caching security and localization Building your own portal Using the portlet tag library PART 2 DEVELOPING PORTLETS USING SPRING AND HIBERNATE Getting started with Spring Portlet MVC Annotation driven development with Spring Integrating portlets with databases PART 3 ADVANCED PORTLET DEVELOPMENT Personalizing portlets Communicating with other portlets Ajaxing portlets Reusable logic with portlet filters Portlet bridges Web Services for Remote Portlets WSRP   **Design Charts for Open-channel Flow** United States. Bureau of Public Roads,1961   Lift Cookbook Richard Dallaway,2013-06-24 Annotation If you need help building web applications with the Lift framework this cookbook provides scores of concise ready to use code solutions Youll find recipes for everything from setting up a coding

environment to creating REST web services and deploying your application to production Built on top of the Scala JVM programming language Lift takes a differentyet ultimately easierapproach to development than MVC frameworks such as Rails Each recipe in this book includes a discussion of how and why each solution works not only to help you complete the task at hand but also to illustrate how Lift works Set up an environment and run your first Lift applicationGenerate HTML using Lifts View First approachSubmit forms and work with form elementsBuild REST web services with the frameworks RestHelper traitTake advantage of Lifts support for Ajax and CometGet examples for modifying Lifts request pipelineConvert Scala classes into tables rows and columns in a relational databaseSend email call URLs and schedule tasks from your applicationPackage and deploy your application to various hosted services   **.NET Core in Action** Dustin Metzgar,2018-07-12 Summary NET Core in Action shows NET developers how to build professional software applications with NET Core Learn how to convert existing NET code to work on multiple platforms or how to start new projects with knowledge of the tools and capabilities of NET Core Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology NET Core is an open source framework that lets you write and run NET applications on Linux and Mac without giving up on Windows Built for everything from lightweight web apps to industrial strength distributed systems it s perfect for deploying NET servers to any cloud platform including AWS and GCP About the Book NET Core in Action introduces you to cross platform development with NET Core This hands on guide concentrates on new Core features as you walk through familiar tasks like testing logging data access and networking As you go you ll explore modern architectures like microservices and cloud data storage along with practical matters like performance profi ling localization and signing assemblies What s Inside Choosing the right tools Testing profiling and debugging Interacting with web services Converting existing projects to NET Core Creating and using NuGet packages About the Reader All examples are in C About the Author Dustin Metzgar is a seasoned developer and architect involved in numerous NET Core projects Dustin works for Microsoft Table of Contents Why NET Core Building your first NET Core applications How to build with NET Core Unit testing with xUnit Working with relational databases Simplify data access with object relational mappers Creating a microservice Debugging Performance and profiling Building world ready applications Multiple frameworks and runtimes Preparing for release appendix A Frameworks and runtimes appendix B xUnit command line options appendix C What s in the NET Standard Library appendix D NuGet cache locations   **Applied Microsoft Analysis Services 2005** Teo Lachev,2005 Knowledge is power As its name suggests the promise of Microsoft SQL Server Analysis Services 2005 is to promote better data analytics by giving information workers the right tool to analyze consistent timely and reliable data Empowered with Analysis Services and Microsoft Business Intelligence Platform you are well positioned to solve the perennial problem with data that there is too much of it and finding the right information is often difficult if not impossible Applied Micrisoft Analysis Services 2005 shows database administrators and developers how to

build complete OLAP solutions with Microsoft Analysis Services 2005 and Microsoft Business Intelligence Platform Database administrators will learn how to design and manage sophisticated OLAP cubes that provide rich data analytics and data mining services The book gives developers the necessary background to extend UDM with custom programming logic in the form of MDX expressions scripts and NET code It teaches them how to implement a wide range of reporting applications that integrate with Analysis Services Reporting Services and Microsoft Office This book doesn t assume any prior experience with OLAP and Microsoft Analysis Services It is designed as an easy to follow guide where each chapter builds upon the previous to implement the components of the innovative Unified Dimensional Model UDM in a chronological order New concepts are introduced with step by step instructions and hands on demos What s Inside o Design sophisticated UDM models o Build ETL processes with SSIS o Implement data mining tasks o Enrich UDM programmatically with MDX o Extend UDM with SSAS stored procedures o Create rich end user model o Optimize Analysis Services storage and processing o Implement dynamic security o Build custom OLAP clients o Author standard and ad hoc reports with SSRS o Build Office based BI applications and dashboards o and much more   Getting started with Spring Framework: covers Spring 5 (4th Edition) Ashish Sarin,J Sharma,2017-11-28 Chapter 1 of this book is now available online bit ly 2z8ErGg 4th Edition reflects changes to Spring 5 and includes new chapters on Functional and Reactive application development Reactive application development chapters cover Reactive Streams specification RxJava 2 Reactor Spring WebFlux and reactive support in Spring Data and Spring Security The examples consisting of 88 sample projects that accompany this book are based on Spring 5 0 1 and Java 9 You can download the examples described in this book from the following GitHub project github com getting started with spring 4thEdition This book covers Spring Framework basics Aspect oriented programming Database interaction using Spring and Hibernate JPA Spring Data JPA Spring Data MongoDB Messaging emailing and caching support Spring Web MVC Developing RESTful web services using Spring Web MVC Functional programming using lambdas and method references Stream API Reactive programming using RxJava 2 and Reactor Spring WebFlux Reactive support in Spring Data MongoDB and Spring Security Developing reactive RESTful web services using Spring WebFlux Spring Security and Spring Data MongoDB

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principal engineer working for Red Hat specializing in cloud and integration He has worked on Apache Camel for the last nine years where he heads the project Claus lives in Denmark Jonathan Anstey is an engineering manager at Red Hat and a core Camel contributor He lives in Newfoundland Canada Table of Contents Part 1 First steps Meeting Camel Routing with Camel Part 2 Core Camel Transforming data with Camel Using beans with Camel Enterprise integration patterns Using components Part 3 Developing and testing Microservices Developing Camel projects Testing RESTful web services Part 4 Going further with Camel Error handling Transactions and idempotency Parallel processing Securing Camel Part 5 Running and managing Camel Running and deploying Camel Management and monitoring Part 6 Out in the wild Clustering Microservices with Docker and Kubernetes Camel tooling Bonus online chapters Available at https www manning com books camel in action second edition and in electronic versions of this book Reactive Camel Camel and the IoT by Henryk Konsek

Artificial Intelligence and PET Imaging, Part 1, An Issue of PET Clinics Babak Saboury,Eliot Siegel,2021-09-21 Artificial Intelligence and PET Imaging Part 1 An Issue of PET Clinics E Book **Microservices and Automation Excellence: Full-Stack Development for the Intelligent Enterprise 2025** AUTHOR:1-VAMSI KRISNA KONDREDDY, AUTHOR:2-DR DEEPENDRA RASTOGI, PREFACE In an era defined by agility intelligence and automation modern software architectures have undergone a dramatic transformation Enterprises are increasingly moving beyond monolithic systems to embrace microservices serverless functions and event driven platforms This paradigm shift is not only architectural but deeply cultural blending DevOps philosophies AI driven insights and cloud native technologies to create intelligent self optimizing ecosystems Microservices and Automation Excellence Full Stack Development for the Intelligent Enterprise is the result of years of research practical experience and emerging trends observed across industries from finance and healthcare to logistics and retail This book was written with a singular goal to provide a structured practitioner focused roadmap for engineers architects and leaders who are building the next generation of distributed scalable and intelligent applications Across twelve comprehensive chapters we explore a wide spectrum of topics ranging from the fundamentals of microservices and CI CD pipelines to innovative concepts like AIOps platform engineering and edge native microservices Each chapter is designed to be modular enriched with real world examples industry case studies tool comparisons and the latest insights from the field Whether you re an architect designing resilient systems a DevOps engineer automating delivery pipelines or a product leader aligning technology with business goals this book aims to serve as both a foundational guide and a forward looking companion We hope this work not only informs your decisions but also inspires new thinking around how to build and operate software in a world increasingly powered by intelligence autonomy and scale In addition the book addresses the ethical challenges and privacy concerns associated with voice recognition technologies While the potential for these tools is vast they raise important questions about data security user consent and the potential for misuse As we look to the future we must balance innovation with responsibility to ensure that these technologies serve the broader interests of society The

purpose of this book is not only to present the current state of the art in generative AI for voice recognition but also to offer a forward looking perspective on the trends and research directions that will shape the next generation of voice enabled applications With emerging technologies such as neural text to speech TTS multilingual speech models and real time voice translation the possibilities seem limitless and the need for understanding these advanced AI applications is more pressing than ever Whether you are a researcher seeking a deep understanding of generative AI in voice recognition or a developer looking for practical knowledge to build the next big voice enabled application this book aims to provide the knowledge and insights needed to navigate this exciting and transformative field The world of voice recognition is evolving at an astonishing pace and with the help of generative AI we are only beginning to scratch the surface of its potential Join us on this journey through the realm of voice recognition and generative AI where we will explore the technologies applications and innovations that are defining the future of human computer interaction Authors Vamsi Krisna Kondreddy Dr Deependra Rastogi *Pro Hadoop Data Analytics* Kerry Koitzsch,2016-12-29 Learn advanced analytical techniques and leverage existing tool kits to make your analytic applications more powerful precise and efficient This book provides the right combination of architecture design and implementation information to create analytical systems that go beyond the basics of classification clustering and recommendation Pro Hadoop Data Analytics emphasizes best practices to ensure coherent efficient development A complete example system will be developed using standard third party components that consist of the tool kits libraries visualization and reporting code as well as support glue to provide a working and extensible end to end system The book also highlights the importance of end to end flexible configurable high performance data pipeline systems with analytical components as well as appropriate visualization results You ll discover the importance of mix and match or hybrid systems using different analytical components in one application This hybrid approach will be prominent in the examples What You ll Learn Build big data analytic systems with the Hadoop ecosystem Use libraries tool kits and algorithms to make development easier and more effective Apply metrics to measure performance and efficiency of components and systems Connect to standard relational databases noSQL data sources and more Follow case studies with example components to create your own systems Who This Book Is For Software engineers architects and data scientists with an interest in the design and implementation of big data analytical systems using Hadoop the Hadoop ecosystem and other associated technologies **Microservices Patterns** Chris Richardson,2018-10-27 A comprehensive overview of the challenges teams face when moving to microservices with industry tested solutions to these problems Tim Moore Lightbend 44 reusable patterns to develop and deploy reliable production quality microservices based applications with worked examples in Java Key Features 44 design patterns for building and deploying microservices applications Drawing on decades of unique experience from author and microservice architecture pioneer Chris Richardson A pragmatic approach to the benefits and the drawbacks of microservices architecture Solve service decomposition transaction management and inter service communication Purchase

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application with recipes and best practices PART 3 FURTHER USE POSSIBILITIES Using Restlet with cloud platforms Using Restlet in browsers and mobile devices Embracing hypermedia and the Semantic Web The future of Restlet   **API Security in Action** Neil Madden,2020-11-20 A comprehensive guide to designing and implementing secure services A must read book for all API practitioners who manage security Gilberto Taccari Penta API Security in Action teaches you how to create secure APIs for any situation By following this hands on guide you ll build a social network API while mastering techniques for flexible multi user security cloud key management and lightweight cryptography A web API is an efficient way to communicate with an application or service However this convenience opens your systems to new security risks API Security in Action gives you the skills to build strong safe APIs you can confidently expose to the world Inside you ll learn to construct secure and scalable REST APIs deliver machine to machine interaction in a microservices architecture and provide protection in resource constrained IoT Internet of Things environments Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology APIs control data sharing in every service server data store and web client Modern data centric designs including microservices and cloud native applications demand a comprehensive multi layered approach to security for both private and public facing APIs About the book API Security in Action teaches you how to create secure APIs for any situation By following this hands on guide you ll build a social network API while mastering techniques for flexible multi user security cloud key management and lightweight cryptography When you re done you ll be able to create APIs that stand up to complex threat models and hostile environments What s inside Authentication Authorization Audit logging Rate limiting Encryption About the reader For developers with experience building RESTful APIs Examples are in Java About the author Neil Madden has in depth knowledge of applied cryptography application security and current API security technologies He holds a Ph D in Computer Science Table of Contents PART 1 FOUNDATIONS 1 What is API security 2 Secure API development 3 Securing the Natter API PART 2 TOKEN BASED AUTHENTICATION 4 Session cookie authentication 5 Modern token based authentication 6 Self contained tokens and JWTs PART 3 AUTHORIZATION 7 OAuth2 and OpenID Connect 8 Identity based access control 9 Capability based security and macaroons PART 4 MICROSERVICE APIs IN KUBERNETES 10 Microservice APIs in Kubernetes 11 Securing service to service APIs PART 5 APIs FOR THE INTERNET OF THINGS 12 Securing IoT communications 13 Securing IoT APIs

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Database as a Service 11 Carrying out full text search using Atlas Search 12 Learning semantic techniques and Atlas Vector Search 13 Developing AI applications locally with the Atlas CLI 14 Building retrieval augmented generation AI chatbots 15 Building event driven applications 16 Optimizing data processing with Atlas Data Federation 17 Archiving online with Atlas Online Archive 18 Querying Atlas using SQL 19 Creating charts database triggers and functions Part 3 20 Understanding Atlas and MongoDB security features 21 Operational excellence with Atlas 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 **Pro Java 6 3D Game Development** Andrew Davison,2008-01-01 Create strange lands filled with mysterious objects cows frozen in blocks of ice chirping penguins golden globes with wavering eyes and throw away your keyboard and mouse to go exploring armed only with a gamepad power glove or just your bare hands Java gaming expert Andrew Davison will show you how to develop and program 3D games in Java technology on a PC with an emphasis on the construction of 3D landscapes It s assumed you have a reasonable knowledge of Java the sort of thing picked up in a first Java course at school Topics are split into three sections Java 3D API non standard input devices for game playing and JOGL Java 3D is a high level 3D graphics API and JOGL is a lower level Java wrapper around the popular OpenGL graphics API You ll look at three non standard input devices the webcam the game pad and the P5 data glove Along the way you ll utilize several other games related libraries including JInput JOAL JMF and Odejava Learn all the latest Java SE 6 features relevant to gaming including splash screens JavaScript scripting as well as the desktop and system tray interfaces Unique coverage of Java game development using both the Java 3D API and Java for OpenGL as well as invaluable experience from a recognized Java gaming guru will provide you with a distinct advantage after reading this book Test-Driven Development Thomas Hammell,David Gold,Tom Snyder,2007-03-01 This will be the first book to show how to implement a test driven development process in detail as it applies to real world J2EE applications Combines the tools and methodologies of test driven development with real world use cases unlikely most titles which cover one or the other Looks at the complete process including test coverage strategies test organization incorporating TDD into new and existing projects as well as how to automate it all This book is not version specific

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