Workshop Java E e 7 E in Praktischer E instieg In Die Java Enterprise Edition Mit Dem Web Profile German Edition | b1584f4fbb0d40c8c1ba65ae7b0e288b

Fluoride in Drinking-waterOCA/OCP Java SE 7 Programmer I & II Study Guide (Exams 1Z0-803 & 1Z0-804)WolfbladeGandharan BuddhismNatural Language Processing with PythonWednesdays in the TowerHigh-Performance Java PersistenceReal World Java Ee Night Hacks Dissecting the Business TierContinental Scientific DrillingThe Java EE 7 TutorialCollaborative Enterprise ArchitectureApplied Parallel ComputingBuilding and Using Comparable CorporaWriting Software DocumentationSOA Using Java Web ServicesGeneral Catalogue of Printed Books to 1955Next Generation SOAOCA/OCP Java SE 7 Programmer I & II Practice Exams (Exams 1Z0-803 & 1Z0-804)Enterprise Architecture at WorkAgile objektorientierte Software-EntwicklungiX Developer – Java 2017bookdownReal World Java EE PatternsThe British Library General Catalogue of Printed Books to 1975Oracle SOA Suite 12c HandbookWell-DesignedThe Red CountessEdible InsectsIndustry 4.0 for SMEsDeep Learning for Coders with fastai and PyTorchBrave, Not PerfectSage for UndergraduatesFunctional Programming in JavaHands-On Cloud-Native Applications with Java and QuarkusThe Joy of KotlinWorkshop Java EE 7 : ein praktischer Einstieg in die Java Enterprise Edition mit dem Web ProfileSecurity and Quality in Cyber-Physical Systems EngineeringWorkshop Java EE 7Ubiquitous Computing FundamentalsAlgebra, Geometry and Software Systems

Deep learning is often viewed as the exclusive domain of math PhDs and big tech companies. But as this hands-on guide demonstrates, programmers comfortable with Python can achieve impressive results in deep learning with little math background, small amounts of data, and minimal code. How? With fastai, the first library to provide a consistent interface to the most frequently used deep learning applications. Authors Jeremy Howard and Sylvain Gugger, the creators of fastai, show you how to train a model on a wide range of tasks using fastai and PyTorch. You'll also dive progressively further into deep learning theory to gain a complete understanding of the algorithms behind the scenes. Train models in computer vision, natural language processing, tabular data, and collaborative filtering Learn the latest deep learning techniques that matter most in practice Improve accuracy, speed, and reliability by understanding how deep learning models work Discover how to turn your models into web applications Implement deep learning algorithms from scratch Consider the ethical implications of your work Gain insight from the foreword by PyTorch cofounder, Soumith Chintala

800x600 The Concise Introduction to Modern SOA: High-Value Approaches, Innovative Technologies, Proven Use Cases After a decade of innovation in technology and practice, SOA is now a mainstream computing discipline, capable of transforming IT enterprises and optimizing business automation. In Next Generation SOA, top-selling SOA author Thomas Erl and a team of experts present a plain-English tour of SOA, service-orientation, and the key service technologies being used to build sophisticated contemporary service-oriented solutions. The starting point for today's IT professionals, this concise guide distills the increasingly growing and diverse field of service-oriented architecture and the real-world practice of building powerful service-driven systems. Accessible and jargon-free, this book intentionally avoids technical details to provide easy-to-understand, introductory coverage of the following topics: Services, service-orientation, and service-oriented computing: what they are and how they have evolved How SOA and service-orientation change businesses and transform IT culture, priorities, and technology decisions How services are defined and

composed to solve a wide spectrum of business problems Deep implications of the service-orientation paradigm--illuminated through an annotation of the classic SOA Manifesto Traditional and contemporary service technologies and architectures How clouds and virtualization support the scalability and reliability of services-based solutions SOA-based industry models, from enterprise service to global trader A detailed case study: how real enterprises bring together contemporary SOA practices, models, and technologies Next Generation SOA will be indispensable to wide audiences of business decision makers and technologists--including architects, developers, managers, executives, strategists, consultants, and researchers. Normal 0 false false false EN-US X-NONE X-NONE MicrosoftInternetExplorer4

"a must-read text that provides a historical lens to see how ubicomp has matured into a multidisciplinary endeavor. It will be an essential reference to researchers and those who want to learn more about this evolving field." -From the Foreword, Professor Gregory D. Abowd, Georgia Institute of Technology First introduced two decades ago, the term ubiquitous computing is now part of the common vernacular. Ubicomp, as it is commonly called, has grown not just quickly but broadly so as to encompass a wealth of concepts and technology that serves any number of purposes across all of human endeavor. While such growth is positive, the newest generation of ubicomp practitioners and researchers, isolated to specific tasks, are in danger of losing their sense of history and the broader perspective that has been so essential to the field's creativity and brilliance. Under the guidance of John Krumm, an original ubicomp pioneer, Ubiquitous Computing Fundamentals brings together eleven ubiquitous computing trailblazers who each report on his or her area of expertise. Starting with a historical introduction, the book moves on to summarize a number of self-contained topics. Taking a decidedly human perspective, the book includes discussion on how to observe people in their natural environments and evaluate the critical points where ubiquitous computing technologies can improve their lives. Among a range of topics this book examines: How to build an infrastructure that supports ubiquitous computing applications Privacy protection in systems that connect personal devices and personal information Moving from the graphical to the ubiquitous computing user interface Techniques that are revolutionizing the way we determine a person's location and understand other sensor measurements While we needn't become expert in every sub-discipline of ubicomp, it is necessary that we appreciate all the perspectives that make up the field and understand how our work can influence and be influenced by those perspectives. This is important, if we are to encourage future generations to be as successfully innovative as the field's originators.

Dieses Arbeitsbuch bietet Ihnen eine praktische Einführung in die Entwicklung von Business-Anwendungen mit Java EE 7. Schrittweise erstellen Sie eine einfach nachvollziehbare Beispielanwendung auf Grundlage des Web Profile. Dabei lernen Sie alle wichtigen Technologien und Konzepte von Java EE 7 kennen, u.a.: - Grafische Oberflächen mit JavaServer Faces und HTML5 - Business-Logik mit CDI und EJB - Persistenz mit JPA - Kommunikation mit REST, SOAP und WebSockets - Erweiterte Konzepte wie Resource Library Contracts, Interceptors, Transaktionen, Timer und Security Über Java EE 7 hinaus wird auch auf weitere praxisrelevante Themen wie Build-Management und Testing eingegangen. Das Deployment wird auf den Applikationsservern WildFly 8 und Glassfish 4 sowie über das Cloud-Angebot Openshift durchgeführt. Am Ende einer jeden Entwicklungsphase finden Sie Übungen und Fragen zur Lernkontrolle. Nach der erfolgreichen Lektüre sind Sie in der Lage, Java-EE-7-Anwendungen selbständig aufzusetzen, zu entwickeln und auf einem Anwendungsserver zu verteilen. Kenntnisse in der Entwicklung mit Java werden vorausgesetzt. Grundlagen von HTML und der Architektur von Webanwendungen sind

hilfreich. In der 2. Auflage wird nun auch die Internationalisierung sowie die Erstellung funktionaler Tests mit Graphene behandelt.

A collection of surveys and research papers on mathematical software and algorithms. The common thread is that the field of mathematical applications lies on the border between algebra and geometry. Topics include polyhedral geometry, elimination theory, algebraic surfaces, Gröbner bases, triangulations of point sets and the mutual relationship. This diversity is accompanied by the abundance of available software systems which often handle only special mathematical aspects. This is why the volume also focuses on solutions to the integration of mathematical software systems. This includes low-level and XML based high-level communication channels as well as general frameworks for modular systems.

This volume provides a review and synthesizes the accomplishments of the past decade of the International Continental Scientific Drilling Program. More importantly, it defines opportunities for scientific advancement through future drilling projects addressing a broad range of disciplines in the Earth Sciences. In addition there is a review of all past projects that were supported by the ICDP, as well as of technical aspects associated with continental drilling.

A complete Oracle Press book of practice exams for OCA and OCP Java certification--co-written by one of the developers of the new Oracle OCP Java SE 7 exam OCA/OCP Java SE 7 Programmer I & II Practice Exams (Exam 1ZO-803 & 1ZO-804) provides pre-assessment and a complete battery of practice test questions for both the OCA and OCP exams and supplements the bestselling OCA/OCP Java SE 7 Programmer I & II Study Guide. This Oracle Press book of practice exams follows the same proven approach as the Study Guide, providing an integrated study system based on proven pedagogy. You'll get pre-assessment exams with scoring reports to help you identify your strengths and weaknesses; special introductions to each section; chapter self-tests that help reinforce and teach practical skills while preparing you for the exam; and final exams that simulate the actual OCA and OCP exams. Covers all new OCA Java SE 7 Programmer I & II exam objectives Bert Bates is a developer of the Oracle OCP Java SE 7 Programmer II exam, so the questions in the book closely simulate the real test questions The most accurate test questions available simulate the type and style of questions found on the live exams Supplements the bestselling OCA/OCP Java SE 7 Programmer I & II Study Guide A low-cost alternative to expensive electronic practice exams All practice questions include answer explanations for both the correct and incorrect options

Edible insects have always been a part of human diets, but in some societies there remains a degree of disdain and disgust for their consumption. Insects offer a significant opportunity to merge traditional knowledge and modern science to improve human food security worldwide. This publication describes the contribution of insects to food security and examines future prospects for raising insects at a commercial scale to improve food and feed production, diversify diets, and support livelihoods in both developing and developed countries. Edible insects are a promising alternative to the conventional production of meat, either for direct human consumption or for indirect use as feedstock. This publication will boost awareness of the many valuable roles that insects play in sustaining nature and human life, and it will stimulate debate on the expansion of the use of insects as food and feed.

Marla Wolfblade of Hythria is determined to restore her family's great name, but conspirators surround her: the Sorcerers' Collective, the Patriots -- even members of her own family. She must make sure her son Damin lives to be old enough to restore the Wolfblade name to its former glory. Elezaar the Dwarf is a small man with big secrets -- but that doesn't matter to

Marla Wolfblade. Her brother is the High Prince of Hythria, and, in this fiercely patriarchal society, her fate will be decided on his whim. She needs someone politically astute to guide her through the maze of court politics -- and Elezaar the Dwarf knows more than he lets on. As Elezaar teaches Marla the Rules of Gaining and Wielding Power, Marla starts on the road to becoming a tactician and a wily diplomat -- but will that be enough to keep her son alive? At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied.

Dieses Arbeitsbuch bietet eine praktische Einführung in die Entwicklung von Business-Anwendungen mit Java EE 7. Schrittweise erstellen Sie eine Beispielanwendung auf Grundlage des Web Profile und lernen dabei alle wichtigen Technologien und Konzepte von Java EE 7 kennen, u.a.: JavaServer Faces, Managed Beans, CDI und EJB Lite, JPA sowie Internationalisierung, Resource Library Contracts, Interceptors, Transaktionen, Timer und Security. Nach der erfolgreichen Lektüre sind Sie in der Lage, Java-EE-7-Anwendungen von Grund auf zu entwickeln und auf einem Anwendungsserver zu verteilen.

Build robust and reliable Java applications that works on modern infrastructure, such as containers and cloud, using the new features in Quarkus 1.0 Key Features Build apps with faster boot time and low RSS memory using the latest Quarkus 1.0 features Seamlessly integrate imperative and reactive programming models to build modern Java applications Discover effective solutions for running Java on serverless apps, microservices, containers, FaaS, and the cloud Book Description Quarkus is a new Kubernetes-native framework that allows Java developers to combine the power of containers, microservices, and cloud-native to build reliable applications. The book is a development guide that will teach you how to build Java-native applications using Quarkus and GraalVM. We start by learning about the basic concepts of a cloud-native application and its advantages over standard enterprise applications. Then we will quickly move on to application development, by installing the tooling required to build our first application on Quarkus. Next, we'll learn how to create a container-native image of our application and execute it in a Platform-as-a-Service environment such as Minishift. Later, we will build a complete real-world application that will use REST and the Contexts and Dependency injection stack with a web frontend. We will also learn how to add database persistence to our application using PostgreSQL. We will learn how to work with various APIs available to Quarkus such as Camel, Eclipse MicroProfile, and Spring DI. Towards the end, we will learn advanced development techniques such as securing applications, application configuration, and working with non-blocking programming models using Vert.x. By the end of this book, you will be proficient with all the components of Quarkus and develop-blazing fast applications leveraging modern technology infrastructure. What you will learn Build a native application using Quarkus and GraalVM Secure your applications using Elytron and the MicroProfile JWT extension Manage data persistence with Quarkus using PostgreSQL Use a non-blocking programming model with Quarkus Learn how to get Camel and Infinispan working in native mode Deploy an application in a Kubernetes-native environment using Minishift Discover Reactive Programming with Vert.x Who this book is for The book is for Java developers and software architects who are interested in learning a promising microservice architecture for building reliable and robust applications. Knowledge of Java, Spring Framework, and REST APIs is assumed.

The ancient region of Gandhara, with its prominent Buddhist heritage, has long fascinated scholars of art history, archaeology, and textual studies. Discoveries of inscriptions, text

fragments, sites, and artworks in the last decade have redefined how we understand the region and its cultural complexity. The essays in this volume reassess Gandharan Buddhism in light of these findings, utilizing a multidisciplinary approach that illuminates the complex historical and cultural dynamics of the region. By integrating archaeology, art history, numismatics, epigraphy, and textual sources, the contributors articulate the nature of Gandharan Buddhism, its practices, and the significance of the relic tradition.

A magical moving castle sky-high with secrets! Everyone knows Castle Glower only really comes to life on a Tuesday. So when Princess Celie spies a new turret on a Wednesday, she is certain something isn't right. Inside the tower is hidden a giant egg, and it seems the castle wants Celie to look after it! Caring for this extraordinary new pet is going to be very tricky, especially once Celie and her siblings realise what else the Castle is hiding . . . This New York Times bestseller and egg-citing sequel to the enchanting adventure Tuesdays at the Castle is out of this world!

Part of the new Allyn & Bacon series in technical communication, Writing Software Documentation features a step-by-step strategy to writing and describing procedures. This task-oriented book is designed to support both college students taking a course and professionals working in the field. Teaching apparatus includes complete programs for students to work on and a full set of project tracking forms, as well as a broad range of examples including Windows-style pages and screens and award-winning examples from STC competitions.

The Java EE 7 Tutorial: Volume 1, Fifth Edition, is a task-oriented, example-driven guide to developing enterprise applications for the Java Platform, Enterprise Edition 7 (Java EE 7). Written by members of the Java EE documentation team at Oracle, this book provides new and intermediate Java programmers with a deep understanding of the platform. This guide includes descriptions of platform features and provides instructions for using the latest versions of NetBeans IDE and GlassFish Server Open Source Edition. The book introduces platform basics, including resource creation, resource injection, and packaging. It covers JavaServer Faces, Java Servlets, the Java API for WebSocket, the Java API for JSON Processing (JSON-P), internationalization and localization, Bean Validation, Contexts and Dependency Injection for Java EE (CDI), and web services (JAX-WS and JAX-RS).

Ever-changing business needs have prompted large companies to rethink their enterprise IT. Today, businesses must allow interaction with their customers, partners, and employees at more touch points and at a depth never thought previously. At the same time, rapid advances in information technologies, like business digitization, cloud computing, and Web 2.0, demand fundamental changes in the enterprises' management practices. These changes have a drastic effect not only on IT and business, but also on policies, processes, and people. Many companies therefore embark on enterprise-wide transformation initiatives. The role of Enterprise Architecture (EA) is to architect and supervise this transformational journey. Unfortunately, today's EA is often a ponderous and detached exercise, with most of the EA initiatives failing to create visible impact. The enterprises need an EA that is agile and responsive to business dynamics. Collaborative Enterprise Architecture provides the innovative solutions today's enterprises require, informed by real-world experiences and experts' insights. This book, in its first part, provides a systematic compendium of the current best practices in EA, analyzes current ways of doing EA, and identifies its constraints and shortcomings. In the second part, it leaves the beaten tracks of EA by introducing Lean, Agile, and Enterprise 2.0 concepts to the traditional EA methods. This blended approach to EA focuses on practical aspects, with recommendations derived from real-world experiences. A truly thought provoking

and pragmatic guide to manage EA, Collaborative Enterprise Architecture effectively merges the long-term oriented top-down approach with pragmatic bottom-up thinking, and that way offers real solutions to businesses undergoing enterprise-wide change. Covers the latest emerging technologies affecting business practice, including digitization, cloud computing, agile software development, and Web 2.0 Focuses on the practical implementation of EAM rather than theory, with recommendations based on real-world case studies Addresses changing business demands and practices, including Enterprise 2.0, open source, global sourcing, and more Takes an innovative approach to EAM, merging standard top-down and pragmatic, bottom-up strategies, offering real solutions to businesses undergoing enterprise-wide changes

An enterprise architecture tries to describe and control an organisation's structure, processes, applications, systems and techniques in an integrated way. The unambiguous specification and description of components and their relationships in such an architecture requires a coherent architecture modelling language. Lankhorst and his co authors present such an enterprise modelling language that captures the complexity of architectural domains and their relations and allows the construction of integrated enterprise architecture models. They provide architects with concrete instruments that improve their architectural practice. As this is not enough, they additionally present techniques and heuristics for communicating with all relevant stakeholders about these architectures. Since an architecture model is useful not only for providing insight into the current or future situation but can also be used to evaluate the transition from 'as is' to 'to be', the authors also describe analysis methods for assessing both the qualitative impact of changes to an architecture and the quantitative aspects of architectures, such as performance and cost issues. The modelling language presented has been proven in practice in many real life case studies and has been adopted by The Open Group as an international standard. So this book is an ideal companion for enterprise IT or business architects in industry as well as for computer or management science students studying the field of enterprise architecture.

The 1990s saw a paradigm change in the use of corpus-driven methods in NLP. In the field of multilingual NLP (such as machine translation and terminology mining) this implied the use of parallel corpora. However, parallel resources are relatively scarce: many more texts are produced daily by native speakers of any given language than translated. This situation resulted in a natural drive towards the use of comparable corpora, i.e. non-parallel texts in the same domain or genre. Nevertheless, this research direction has not produced a single authoritative source suitable for researchers and students coming to the field. The proposed volume provides a reference source, identifying the state of the art in the field as well as future trends. The book is intended for specialists and students in natural language processing, machine translation and computer-assisted translation.

Was lange währt, wird letztlich gut: 2017 erscheinen endlich neue Versionen von Java SE und Java EE. Modularität, interaktive Shell, HTTP-2.0-Support, Cloud-Fokus und einiges andere mehr sollen ein zeitgemäßes Java sichern - auch mehr als 20 Jahre nach der initialen Einführung. Das 156 Seiten dicke Sonderheft zu Java 9 und Java EE 8 bringt Entwickler auf den neuesten Stand und vermittelt einen tief schürfenden Eindruck von der seit Jahren weltweit wichtigsten Programmierplattform. Das „Java 2017"-Sonderheft enthält in der digitalen Ausgabe einen Link, über den der auf Heft-DVD erhältliche Inhalt per Download zu beziehen ist. Es handelt sich um wichtige Werkzeuge für Java-Entwickler, Konferenzvideos, über 200 Seiten Buchauszüge zur Java-Entwicklung und sämtliche Beispielanwendungen und Listings zu den Artikeln des Heftes.

Inspired by her popular TED Talk, the founder and CEO of Girls Who Code urges women to embrace imperfection and live a bolder, more authentic life.

This pragmatic book offers the real world knowledge you need to develop lean and maintainable Java EE 5 / 6 applications. Real World Java EE Patterns - Rethinking Best Practices guides you to efficient patterns and best practices in a structured way, with code from real world projects.This book includes coverage of:An introduction into the core principles and APIs of Java EE 6 (EJB, JPA, JMS, JCA, JTA, DI, Convention Over Configuration, REST),Principles of transactions, Isolation Levels, remoting in Java EE 6 context,Discussion of superfluous patterns and outdated best practices like DAOs, Business Delegates, DTOs, extensive layering, indirections,Patterns for integration of asynchronous, legacy, or incompatible resources,Infrastructural patterns for eager-starting of services, thread tracking, pre-condition checks, Java EE 6 lookups or integration of third-party Dependency Injection frameworks like Guice,Fully functional JCA implementation with source code,EJB 2 - EJB 3 migration strategies

The surprisingly successful book Real World Java EE Patterns-Rethinking Best Practices [press.adam-bien.com] discusses the rethinking of legacy J2EE patterns. Now, Real World Java EE Night Hacks walks you through the Java EE 6 best practices and patterns used to create a real world application called "x-ray." X-ray is a high-performance blog statistics application built with nothing but vanilla Java EE 6 leveraging the synergies between the JAX-RS, EJB 3.1, JPA 2, and CDI 1.0 APIs. Foreword by James Gosling, Father of Java

Fluoride is known to occur at elevated concentration in a number of parts of the world, where it can be a significant cause of disease. The primary focus of this book is the prevention of adverse health effects from excessive levels of fluoride in drinking water. The book fills the urgent need, identified for updating the WHO Guidelines for Drinking-water Quality, for information on the occurrence of fluoride, its health effects, ways of reducing excess levels, and methods for analysis of fluoride in water. The draft document, produced by a working group of experts convened to consider protection from fluoride and its control, was issued for extensive review and consultation. The resultant book, which incorporates the comments received, was further peer reviewed by experts in developed and developing countries. It is aimed at a wide range of individuals, including health workers and sanitary engineers who may require a broad introduction to the subject with more detailed guidance in some specific areas. Fluoride in Drinking-water will be an invaluable reference source for all those concerned with the management of drinking water containing fluoride and the health effects arising from its consumption, including water sector managers and practitioners, as well as health sector staff at policy and implementation levels. It will also be of interest to researchers, students, development workers, and consultants.

This book constitutes the thoroughly refereed post-proceedings of the 8th International Workshop on Applied Parallel Computing, PARA 2006. It covers partial differential equations, parallel scientific computing algorithms, linear algebra, simulation environments, algorithms and applications for blue gene/L, scientific computing tools and applications, parallel search algorithms, peer-to-peer computing, mobility and security, algorithms for single-chip multiprocessors.

From Design Thinking to Design Doing Innovators today are told to run loose and think lean in order to fail fast and succeed sooner. But in a world obsessed with the new, where cool added features often trump actual customer needs, it's the consumer who suffers. In our quest to be

more agile, we end up creating products that underwhelm. So how does a company like Nest, creator of the mundane thermostat, earn accolades like "beautiful" and "revolutionary" and a $3.2 billion Google buyout? What did Nest do differently to create a household product that people speak of with love? Nest, and companies like it, understand that emotional connection is critical to product development. And they use a clear, repeatable design process that focuses squarely on consumer engagement rather than piling on features for features' sake. In this refreshingly jargon-free and practical book, product design expert Jon Kolko maps out this process, demonstrating how it will help you and your team conceive and build successful, emotionally resonant products again and again. The key, says Kolko, is empathy. You need to deeply understand customer needs and feelings, and this understanding must be reflected in the product. In successive chapters of the book, we see how leading companies use a design process of storytelling and iteration that evokes positive emotions, changes behavior, and creates deep engagement. Here are the four key steps: 1. Determine a product-market fit by seeking signals from communities of users. 2. Identify behavioral insights by conducting ethnographic research. 3. Sketch a product strategy by synthesizing complex research data into simple insights. 4. Polish the product details using visual representations to simplify complex ideas. Kolko walks the reader through each step, sharing eye-opening insights from his fifteen-year career in product design along the way. Whether you're a designer, a product developer, or a marketer thinking about your company's next offering, this book will forever change the way you think about—and create—successful products.

Dieses Lehrbuch zeigt anhand eines durchgängigen Fallbeispiels wie Anwendungssoftware zur Optimierung von Geschäftsprozessen agil entwickelt werden kann. Auf der Basis eines agilen Vorgehensmodells werden Geschäftsprozesse modelliert, Anwendungsfälle und User Stories abgeleitet sowie in iterativer Weise die Softwarelösung methodisch entworfen und auf der Java EE Plattform beispielhaft implementiert. Dabei kommen Prinzipien und Praktiken agiler Vorgehensweisen zur Anwendung. Nach einer leichtgewichtigen Vorbereitungsphase steht die Entwicklungsphase mit zeitlich festgelegten Iterationen im Mittelpunkt. Die Anforderungen werden als User Stories gut verständlich beschrieben, deren Kontext durch die Anwendungsfälle des Geschäftsprozesses vorgegeben ist. Statische und dynamische UML-Modelle unterstützen die Kommunikation beim Entwurf der User Stories. Die identifizierten System-Operationen werden mit Hilfe von Mustern in systematischer Weise Klassen zugeordnet, Entwurfsmuster werden an Beispielen vorgestellt und praktisch eingesetzt, so dass ein Software-System mit geringer Kopplung und hoher Wartbarkeit entsteht. Das durchgängige Beispiel zeigt dem Leser anschaulich den Weg von der Problemstellung im Geschäftsprozess bis zur Java-Software-Lösung Schritt für Schritt auf. Zu jedem Kapitel werden Wiederholungsfragen und Aufgaben angeboten. Online stehen Quellcode und ergänzende Lernhilfen zur Verfügung.

Expert Solutions and State-of-the-Art Code Examples SOA Using Java™ Web Services is a hands-on guide to implementing Web services and Service Oriented Architecture (SOA) with today's Java EE 5 and Java SE 6 platforms. Author Mark Hansen presents in explicit detail the information that enterprise developers and architects need to succeed, from best-practice design techniques to state-of-the-art code samples. Hansen covers creating, deploying, and invoking Web services that can be composed into loosely coupled SOA applications. He begins by reviewing the "big picture," including the challenges of Java-based SOA development and the limitations of traditional approaches. Next, he systematically introduces the latest Java Web Services (JWS) APIs and walks through creating Web services that integrate into a comprehensive SOA solution. Finally, he shows how application frameworks based on JWS can streamline the entire SOA development process and introduces one such

framework: SOA-J. The book Introduces practical techniques for managing the complexity of Web services and SOA, including best-practice design examples Offers hard-won insights into building effective SOA applications with Java Web Services Illuminates recent major JWS improvements–including two full chapters on JAX-WS 2.0 Thoroughly explains SOA integration using WSDL, SOAP, Java/XML mapping, and JAXB 2.0 data binding Walks step by step through packaging and deploying Web services components on Java EE 5 with JSR-181 (WS-Metadata 2.0) and JSR-109 Includes specific code solutions for many development issues, from publishing REST endpoints to consuming SOAP services with WSDL Presents a complete case study using the JWS APIs, together with an Ajax front end, to build a SOA application integrating Amazon, Yahoo Shopping, and eBay Contains hundreds of code samples–all tested with the GlassFish Java EE 5 reference implementation–that are downloadable from the companion Web site, http://soabook.com. Foreword Preface Acknowledgments About the Author Chapter 1: Service-Oriented Architecture with Java Web Services Chapter 2: An Overview of Java Web Services Chapter 3: Basic SOA Using REST Chapter 4: The Role of WSDL, SOAP, and Java/XML Mapping in SOA Chapter 5: The JAXB 2.0 Data Binding Chapter 6: JAX-WS–Client-Side Development Chapter 7: JAX-WS 2.0–Server-Side Development Chapter 8: Packaging and Deployment of SOA Components (JSR-181 and JSR-109) Chapter 9: SOAShopper: Integrating eBay, Amazon, and Yahoo! Shopping Chapter 10: Ajax and Java Web Services Chapter 11: WSDL-Centric Java Web Services with SOA-J Appendix A: Java, XML, and Web Services Standards Used in This Book Appendix B: Software Configuration Guide Appendix C: Namespace Prefixes Glossary References Index

As the open-source and free competitor to expensive software like MapleTM, Mathematica®, Magma, and MATLAB®, Sage offers anyone with access to a web browser the ability to use cutting-edge mathematical software and display his or her results for others, often with stunning graphics. This book is a gentle introduction to Sage for undergraduate students toward the end of Calculus II (single-variable integral calculus) or higher-level course work such as Multivariate Calculus, Differential Equations, Linear Algebra, or Math Modeling. The book assumes no background in computer science, but the reader who finishes the book will have learned about half of a first semester Computer Science I course, including large parts of the Python programming language. The audience of the book is not only math majors, but also physics, engineering, finance, statistics, chemistry, and computer science majors.

Master Oracle SOA Suite 12c Design, implement, manage, and maintain a highly flexible service-oriented computing infrastructure across your enterprise using the detailed information in this Oracle Press guide. Written by an Oracle ACE director, Oracle SOA Suite 12c Handbook uses a start-to-finish case study to illustrate each concept and technique. Learn expert techniques for designing and implementing components, assembling composite applications, integrating Java, handling complex business logic, and maximizing code reuse. Runtime administration, governance, and security are covered in this practical resource. Get started with the Oracle SOA Suite 12c development and run time environment Deploy and manage SOA composite applications Expose SOAP/XML REST/JSON through Oracle Service Bus Establish interactions through adapters for Database, JMS, File/FTP, UMS, LDAP, and Coherence Embed custom logic using Java and the Spring component Perform fast data analysis in real time with Oracle Event Processor Implement Event Drive Architecture based on the Event Delivery Network (EDN) Use Oracle Business Rules to encapsulate logic and automate decisions Model complex processes using BPEL, BPMN, and human task components Establish KPIs and evaluate performance using Oracle Business Activity Monitoring Control traffic, audit system activity, and encrypt sensitive data

This book offers a highly accessible introduction to natural language processing, the field that supports a variety of language technologies, from predictive text and email filtering to automatic summarization and translation. With it, you'll learn how to write Python programs that work with large collections of unstructured text. You'll access richly annotated datasets using a comprehensive range of linguistic data structures, and you'll understand the main algorithms for analyzing the content and structure of written communication. Packed with examples and exercises, Natural Language Processing with Python will help you: Extract information from unstructured text, either to guess the topic or identify "named entities" Analyze linguistic structure in text, including parsing and semantic analysis Access popular linguistic databases, including WordNet and treebanks Integrate techniques drawn from fields as diverse as linguistics and artificial intelligence This book will help you gain practical skills in natural language processing using the Python programming language and the Natural Language Toolkit (NLTK) open source library. If you're interested in developing web applications, analyzing multilingual news sources, or documenting endangered languages -- or if you're simply curious to have a programmer's perspective on how human language works -- you'll find Natural Language Processing with Python both fascinating and immensely useful.

This book examines the requirements, risks, and solutions to improve the security and quality of complex cyber-physical systems (C-CPS), such as production systems, power plants, and airplanes, in order to ascertain whether it is possible to protect engineering organizations against cyber threats and to ensure engineering project quality. The book consists of three parts that logically build upon each other. Part I "Product Engineering of Complex Cyber-Physical Systems" discusses the structure and behavior of engineering organizations producing complex cyber-physical systems, providing insights into processes and engineering activities, and highlighting the requirements and border conditions for secure and high-quality engineering. Part II "Engineering Quality Improvement" addresses quality improvements with a focus on engineering data generation, exchange, aggregation, and use within an engineering organization, and the need for proper data modeling and engineering-result validation. Lastly, Part III "Engineering Security Improvement" considers security aspects concerning C-CPS engineering, including engineering organizations' security assessments and engineering data management, security concepts and technologies that may be leveraged to mitigate the manipulation of engineering data, as well as design and run-time aspects of secure complex cyber-physical systems. The book is intended for several target groups: it enables computer scientists to identify research issues related to the development of new methods, architectures, and technologies for improving quality and security in multi-disciplinary engineering, pushing forward the current state of the art. It also allows researchers involved in the engineering of C-CPS to gain a better understanding of the challenges and requirements of multi-disciplinary engineering that will guide them in their future research and development activities. Lastly, it offers practicing engineers and managers with engineering backgrounds insights into the benefits and limitations of applicable methods, architectures, and technologies for selected use cases.

A complete update to the definitive, bestselling guide to the #1 certification for Java programmers Written and revised by the co-developers of the original SCJP exam and now published in the Oracle Press brand Includes two complete practice exams—250+ practice exam questions in book and via electronic content Replaces SCJP Sun Certified Programmer for Java Study Guide—150,000 copies sold

Intermediate level, for programmers fairly familiar with Java, but new to the functional style of programming and lambda expressions. Get ready to program in a whole new way. Functional

Programming in Java will help you quickly get on top of the new, essential Java 8 language features and the functional style that will change and improve your code. This short, targeted book will help you make the paradigm shift from the old imperative way to a less error-prone, more elegant, and concise coding style that's also a breeze to parallelize. You'll explore the syntax and semantics of lambda expressions, method and constructor references, and functional interfaces. You'll design and write applications better using the new standards in Java 8 and the JDK. Lambda expressions are lightweight, highly concise anonymous methods backed by functional interfaces in Java 8. You can use them to leap forward into a whole new world of programming in Java. With functional programming capabilities, which have been around for decades in other languages, you can now write elegant, concise, less error-prone code using standard Java. This book will guide you though the paradigm change, offer the essential details about the new features, and show you how to transition from your old way of coding to an improved style. In this book you'll see popular design patterns, such as decorator, builder, and strategy, come to life to solve common design problems, but with little ceremony and effort. With these new capabilities in hand, Functional Programming in Java will help you pick up techniques to implement designs that were beyond easy reach in earlier versions of Java. You'll see how you can reap the benefits of tail call optimization, memoization, and effortless parallelization techniques. Java 8 will change the way you write applications. If you're eager to take advantage of the new features in the language, this is the book for you. What you need: Java 8 with support for lambda expressions and the JDK is required to make use of the concepts and the examples in this book.

Praise for the first edition of this book: This translation is something of an event. For the first time, it makes Zur Mühlen's text available to English-speaking readers in a reliable version. —David Midgley, University of Cambridge [This book] represents exceptional value, both as an enjoyable read and as an introduction to an attractive author who amply deserves rediscovery. —Ritchie Robertson, Journal of European Studies, 42(1): 106-07. Born into a distinguished aristocratic family of the old Habsburg Empire, Hermynia Zur Mühlen spent much of her childhood and early youth travelling in Europe and North Africa with her diplomat father. Never comfortable with the traditional roles women were expected to play, she broke as a young adult both with her family and, after five years on his estate in the old Czarist Russia, with her German Junker husband, and set out as an independent, free-thinking individual, earning a precarious living as a writer. Zur Mühlen translated over 70 books from English, French and Russian into German, notably the novels of Upton Sinclair, which she turned into best-sellers in Germany; produced a series of detective novels under a pseudonym; wrote seven engaging and thought-provoking novels of her own, six of which were translated into English; contributed countless insightful short stories and articles to newspapers and magazines; and, having become a committed socialist, achieved international renown in the 1920s with her Fairy Tales for Workers' Children, which were widely translated including into Chinese and Japanese. Because of her fervent and outspoken opposition to National Socialism, she and her life-long Jewish partner, Stefan Klein, had to flee first Germany, where they had settled, and then, in 1938, her native Austria. They found refuge in England, where Zur Mühlen died, forgotten and virtually penniless, in 1951.

This open access book explores the concept of Industry 4.0, which presents a considerable challenge for the production and service sectors. While digitization initiatives are usually integrated into the central corporate strategy of larger companies, smaller firms often have problems putting Industry 4.0 paradigms into practice. Small and medium-sized enterprises (SMEs) possess neither the human nor financial resources to systematically investigate the potential and risks of introducing Industry 4.0. Addressing this obstacle, the international team

of authors focuses on the development of smart manufacturing concepts, logistics solutions and managerial models specifically for SMEs. Aiming to provide methodological frameworks and pilot solutions for SMEs during their digital transformation, this innovative and timely book will be of great use to scholars researching technology management, digitization and small business, as well as practitioners within manufacturing companies.

A high-performance data access layer must resonate with the underlying database system. Knowing the inner workings of a relational database and the data access frameworks in use can make the difference between a high-performance enterprise application and one that barely crawls. This book is a journey into Java data access performance tuning. From connection management, to batch updates, fetch sizes and concurrency control mechanisms, it unravels the inner workings of the most common Java data access frameworks. The first part aims to reduce the gap between application developers and database administrators. For this reason, it covers both JDBC and the database fundamentals that are of paramount importance when reducing transaction response times. In this first part, you'll learn about connection management, batch updates, statement caching, result set fetching and database transactions. The second part demonstrates how you can take advantage of JPA and Hibernate without compromising application performance. In this second part, you'll learn about the most efficient Hibernate mappings (basic types, associations, inheritance), fetching best practices, caching and concurrency control mechanisms. The third part is dedicated to jOOQ and its powerful type-safe querying capabilities, like window functions, common table expressions, upsert, stored procedures and database functions.

bookdown: Authoring Books and Technical Documents with R Markdown presents a much easier way to write books and technical publications than traditional tools such as LaTeX and Word. The bookdown package inherits the simplicity of syntax and flexibility for data analysis from R Markdown, and extends R Markdown for technical writing, so that you can make better use of document elements such as figures, tables, equations, theorems, citations, and references. Similar to LaTeX, you can number and cross-reference these elements with bookdown. Your document can even include live examples so readers can interact with them while reading the book. The book can be rendered to multiple output formats, including LaTeX/PDF, HTML, EPUB, and Word, thus making it easy to put your documents online. The style and theme of these output formats can be customized. We used books and R primarily for examples in this book, but bookdown is not only for books or R. Most features introduced in this book also apply to other types of publications: journal papers, reports, dissertations, course handouts, study notes, and even novels. You do not have to use R, either. Other choices of computing languages include Python, C, C++, SQL, Bash, Stan, JavaScript, and so on, although R is best supported. You can also leave out computing, for example, to write a fiction. This book itself is an example of publishing with bookdown and R Markdown, and its source is fully available on GitHub.

Summary Maintaining poor legacy code, interpreting cryptic comments, and writing the same boilerplate over and over can suck the joy out of your life as a Java developer. Fear not! There's hope! Kotlin is an elegant JVM language with modern features and easy integration with Java. The Joy of Kotlin teaches you practical techniques to improve abstraction and design, to write comprehensible code, and to build maintainable bug-free applications. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Your programming language should be expressive, safe, flexible, and intuitive, and Kotlin checks all the boxes! This elegant JVM language integrates seamlessly with Java, and makes it a breeze to switch between OO and

functional styles of programming. It's also fully supported by Google as a first-class Android language. Master the powerful techniques in this unique book, and you'll be able to take on new challenges with increased confidence and skill. About the Book The Joy of Kotlin teaches you to write comprehensible, easy-to-maintain, safe programs with Kotlin. In this expert guide, seasoned engineer Pierre-Yves Saumont teaches you to approach common programming challenges with a fresh, FP-inspired perspective. As you work through the many examples, you'll dive deep into handling errors and data properly, managing state, and taking advantage of laziness. The author's down-to-earth examples and experience-driven insights will make you a better--and more joyful--developer! What's inside Programming with functions Dealing with optional data Safe handling of errors and exceptions Handling and sharing state mutation About the Reader Written for intermediate Java or Kotlin developers. About the Author Pierre-Yves Saumont is a senior software engineer at Alcatel-Submarine Networks. He's the author of Functional Programming in Java (Manning, 2017). Table of Contents Making programs safer Functional programming in Kotlin: An overview Programming with functions Recursion, corecursion, and memoization Data handling with lists Dealing with optional data Handling errors and exceptions Advanced list handling Working with laziness More data handling with trees Solving problems with advanced trees Functional input/output Sharing mutable states with actors Solving common problems functionally

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