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Writing About Architecture Mastering Autodesk Revit Architecture 2013 Mastering Non-Functional Requirements **Integrated Practice in Architecture Mastering Autodesk Revit 2020** *Mastering Architecture* **Mastering Tradition An Architect's Journey** Mastering Kubernetes **Writing Architecture** *Mastering Revit Architecture 2010 Mastering AutoCAD Architecture 2010* **Mastering Autodesk Revit Architecture 2016** Mastering Autodesk 3ds Max Design 2010 Mastering Autodesk Revit 2018 **Mastering Autodesk Architectural Desktop 2004** Mastering Spring 5.0 *Mastering Your Data* **Mastering Hadoop 3** Mastering ArchiMate **Mastering Tableau** *The Art and Architecture of Academic Writing Mastering API Architecture* Mastering Apache Storm **Mastering PHP Design Patterns** *Mastering Archimate Edition III* **Mastering GitLab 12 Paul F. Aubin's Mastering Revit Architecture 2010 Mastering Virtual Machine Manager 2008 R2** Mastering VMware vSphere 6.7 **Mastering mental ray** Mastering Microservices with Java 9 **Mastering Microsoft Azure Infrastructure Services** The Language of Architecture *Mastering Kafka Streams and ksqlDB* **Microservice Architecture Mastering Autodesk Revit Architecture 2011 Mastering Blockchain Programming with Solidity** *Mastering ArchiMate Edition 3.1 Mastering E-Business*

Mastering Autodesk Architectural Desktop 2004 Jul 17 2021 The book focuses squarely on the rationale and practicality of the ADT (Architectural desktop) process through lessons that emphasize "why" as well as "how" to help readers complete their projects successfully.

Mastering mental ray Apr 01 2020 Proven techniques for using mental ray effectively If you're a busy artist seeking high-end results for your 3D, design, or architecture renders using mental ray, this is the perfect book for you. It distills the highly technical nature of rendering into easy-to-follow steps and tutorials that you can apply immediately to your own projects. The book uses 3ds Max and 3ds Max Design to show the integration with mental ray, but users of any 3D or CAD software can learn valuable techniques for incorporating mental ray into their pipelines. Takes you under the hood of mental ray, a stand-alone or bundled product that is often used with 3D or CAD software in the creation of movies, games, architectural renders, and television Focuses on only the most pertinent tools and techniques for busy professionals who need to quickly apply them on the job Provides compelling, practical tutorials so you can start incorporating mental ray into your own production pipelines Includes a DVD with step-by-step videos to help drive home concepts and techniques Learn effective mental ray techniques with this great guide, then keep this practical book at your workstation for reference while you work! Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Mastering PHP Design Patterns Oct 08 2020 Develop robust and reusable code using a multitude of design patterns for PHP 7 About This Book Learn about advanced design patterns in PHP 7 Understand enhanced architectural patterns Learn to implement reusable design patterns to address common recurring problems Who This Book Is For This book is for PHP developers who wish to have better organization structure over their code through learning common methodologies to solve architectural problems against a backdrop of learning new functionality in PHP 7. What You Will Learn Recognize recurring problems in your code with Anti-Patterns Uncover object creation mechanisms using Creational Patterns Use Structural design patterns to easily access your code Address common issues encountered when linking objects using the splObserver classes in PHP 7 Achieve a common style of coding with Architectural Patterns Write reusable code for common MVC frameworks such as Zend, Laravel, and Symfony Get to know the best practices associated with design patterns when used with PHP 7 In Detail Design patterns are a clever way to solve common architectural issues that arise during software development. With an increase in demand for enhanced programming techniques and the versatile nature of PHP, a deep understanding of PHP design patterns is critical to achieve efficiency while coding. This comprehensive guide will show you how to achieve better organization structure over your code through learning common methodologies to solve architectural problems. You'll also learn about the new functionalities that PHP 7 has to offer. Starting with a brief introduction to design patterns, you quickly dive deep into the three main architectural patterns: Creational, Behavioral, and Structural popularly known as the Gang of Four patterns. Over the course of the book, you will get a deep understanding of object creation mechanisms, advanced techniques that address issues concerned with linking objects together, and improved methods to access your code. You will also learn about Anti-Patterns and the best methodologies to adopt when building a PHP 7 application. With a concluding chapter on best practices, this book is a complete guide that will equip you to utilize design patterns in PHP 7 to achieve maximum productivity, ensuring an enhanced software development experience. Style and approach The book covers advanced design patterns in detail in PHP 7 with the help of rich code-based examples.

Mastering Your Data May 15 2021 This is my latest book on Data Architecture focusing on the subject of MDM (Master Data Management). It is intended to provide an overview of the subject with chapters covering key topics such as: the business case, data privacy, the challenges of global MDM, golden source and authoritative source explanations, the different MDM styles and the record matching process. The back cover text says the following: " Master Data Management (MDM for short) has become a whole industry, within an industry. There are many companies now claiming to be MDM software (or services) providers. Everyone wants a master data project on their CV, and in general it has become hip and trendy to talk about and do. The reality is that MDM is in fact the reincarnation of the problem of how to manage the consistency and integrity of the myriads of data assets that exist across the enterprise. This book provides an understanding of MDM, the business drivers behind it, the various techniques that are critical to its success and gives a good architectural grounding in the subject. It is perfect for anyone embarking on an 'adventure' in this problem space." I hope you find this book enjoyable and useful. Andy

Mastering Autodesk Revit Architecture 2016 Oct 20 2021 The Autodesk-endorsed guide to real-world Revit Architecture mastery Mastering Autodesk Revit Architecture 2016 provides focused discussions, detailed exercises, and compelling, real-world examples to help you get the most out of the Revit Architecture 2016 software. Information is organized to reflect the way you learn and implement Revit, featuring real-world workflows, in-depth explanations, and practical tutorials that help you understand Revit and BIM concepts so you can quickly start accomplishing vital tasks. The thorough coverage makes this book an ideal study guide for those preparing for Autodesk's certification exam. The companion website features before-and-after tutorials, additional advanced content, and video on crucial techniques to help you quickly master important tasks. This comprehensive guide walks you through the software to help you begin designing quickly. Understand basic BIM concepts and the Revit interface Explore templates, work-sharing, and project management workflows Learn modeling, massing, and visualization techniques for other industries Work with complex structures, annotation, detailing, and much more To master what is quickly becoming an essential industry tool, Mastering Revit Architecture 2016 is your ultimate practical companion.

Mastering Autodesk Revit Architecture 2011 Sep 26 2019 The Ultimate Real-World Reference for Revit Architecture This comprehensive guide has been completely updated to provide the most modern, detailed, and in-depth coverage of Autodesk's leading building information modeling software. This packed new edition features clear discussions of core topics that are reinforced by compelling examples and tutorials to guide you to Revit Architecture mastery. The expert authors use real-world workflows to show you how to immediately implement and use Revit Architecture 2011 with spectacular results. They delve deeply into every crucial topic, including how to most productively use the interface, how to create fantastic building designs with Revit, and how to produce solid documentation. They also explore such advanced topics as using Revit Architecture during construction and how to leverage the API. Coverage includes: A thorough, complete overview of the Revit Architecture tool chest Advanced modeling and massing using the Family Editor Designing simple and complex walls, curtain walls, roofs, floors, stairs, and railings Preparing your designs for presentation with color fills, animations, visualizations, and more Using the Revit API to create custom applications Performing various types of sustainable design analysis Advanced topics not covered anywhere else, including modeling for construction, and Revit for film and stage Other critical coverage such as managing Revit projects, family creation, office standards, and more Quickly Become Productive Using Core Revit Features and Functions Document, Detail, Annotate, and Present Your Designs Improve Your Workflow with Worksharing and Collaboration Explore the Essentials of Sustainable Design Prepare for the Revit Architecture 2011 Certified Associate and Certified Professional Exams

Mastering Tradition Apr 25 2022 The first comprehensive illustrated survey of John Russell

Mastering Tableau Feb 09 2021 Master the intricacies of Tableau to create effective data visualizations About This Book Arm yourself with an arsenal of advanced chart types and geocoding to efficiently and engagingly present information Map a grid over a network node diagram and use that grid to demonstrate loads, processing time, and more in Tableau Integrate R with Tableau by utilizing R functions, libraries, and saved models Who This Book Is For If you are a business analyst without developer-level programming skills, then this book is for you. You are expected to have at least a fundamental understanding of Tableau and basic knowledge of joins, however SQL knowledge is not assumed. You should have basic computer skills, including at least moderate Excel proficiency. What You Will Learn Create a worksheet that can display the current balance for any given period in time Recreate a star schema from in a data warehouse in Tableau Combine level of detail calculations with table calculations, sets, and parameters Create custom polygons to build filled maps for area codes in the USA Visualize data using a set of analytical and advanced charting techniques Know when to use Tableau instead of PowerPoint Build a dashboard and export it to PowerPoint In Detail Tableau has emerged as one of the most popular

Business Intelligence solutions in recent times, thanks to its powerful and interactive data visualization capabilities. This book will empower you to become a master in Tableau by exploiting the many new features introduced in Tableau 10.0. You will embark on this exciting journey by getting to know the valuable methods of utilizing advanced calculations to solve complex problems. These techniques include creative use of different types of calculations such as row-level, aggregate-level, and more. You will discover how almost any data visualization challenge can be met in Tableau by getting a proper understanding of the tool's inner workings and creatively exploring possibilities. You'll be armed with an arsenal of advanced chart types and techniques to enable you to efficiently and engagingly present information to a variety of audiences through the use of clear, efficient, and engaging dashboards. Explanations and examples of efficient and inefficient visualization techniques, well-designed and poorly designed dashboards, and compromise options when Tableau consumers will not embrace data visualization will build on your understanding of Tableau and how to use it efficiently. By the end of the book, you will be equipped with all the information you need to create effective dashboards and data visualization solutions using Tableau. Style and approach This book takes a direct approach, to systematically evolve to more involved functionalities such as advanced calculation, parameters & sets, data blending and R integration. This book will help you gain skill in building visualizations previously beyond your capacity.

Writing About Architecture Nov 01 2022 Extraordinary architecture addresses so much more than mere practical considerations. It inspires and provokes while creating a seamless experience of the physical world for its users. It is the rare writer that can frame the discussion of a building in a way that allows the reader to see it with new eyes. Writing About Architecture is a handbook on writing effectively and critically about buildings and cities. Each chapter opens with a reprint of a significant essay written by a renowned architecture critic, followed by a close reading and discussion of the writer's strategies. Lange offers her own analysis using contemporary examples as well as a checklist of questions at the end of each chapter to help guide the writer. This important addition to the Architecture Briefs series is based on the author's design writing courses at New York University and the School of Visual Arts. Lange also writes a popular online column for Design Observer and has written for Dwell, Metropolis, New York magazine, and The New York Times. Writing About Architecture includes analysis of critical writings by Ada Louise Huxtable, Lewis Mumford, Herbert Muschamp, Michael Sorkin, Charles Moore, Frederick Law Olmsted, and Jane Jacobs. Architects covered include Marcel Breuer, Diller Scofidio + Renfro, Field Operations, Norman Foster, Frank Gehry, Frederick Law Olmsted, SOM, Louis Sullivan, and Frank Lloyd Wright.

Mastering Autodesk Revit 2018 Aug 18 2021 The best-selling Revit guide, now more complete than ever with all-new coverage on the 2018 release Mastering Autodesk Revit 2018 for Architecture is packed with focused discussions, detailed exercises, and real-world examples to help you get up to speed quickly on the latest version of Autodesk Revit for Architecture. Organized according to how you learn and implement the software, this book provides expert guidance for all skill levels. Hands-on tutorials allow you to dive right in and start accomplishing vital tasks, while compelling examples illustrate how Revit for Architecture is used in every project. Available online downloads include before-and-after tutorial files and additional advanced content to help you quickly master this powerful software. From basic interface topics to advanced visualization techniques and documentation, this invaluable guide is your ideal companion through the Revit Architecture workflow. Whether you're preparing for Autodesk certification exams or just want to become more productive with the architectural design software, practical exercises and expert instruction will get you where you need to be. Understand key BIM and Revit concepts and master the Revit interface Delve into templates, work-sharing, and managing Revit projects Master modeling and massing, the Family Editor, and visualization techniques Explore documentation, including annotation, detailing, and complex structures BIM software has become a mandatory asset in today's architecture field; automated documentation updates reduce errors while saving time and money, and Autodesk's Revit is the industry leader in the BIM software space.

Mastering GitLab 12 Aug 06 2020 An expert guide to helping you use DevOps techniques with the latest GitLab version to optimize and manage your software workflow Key FeaturesDelve into GitLab's architecture, and install and configure it to fit your environmentLearn about the underlying principles of Agile software development and DevOpsExplore Gitlab's features to manage enterprise cloud-native applications and servicesBook Description GitLab is an open source repository management and version control toolkit with functions for enterprises and personal software projects. It offers configurability options, extensions, and APIs that make it an ideal tool for enterprises to manage the software development life cycle. This book begins by explaining GitLab options and the components of the GitLab architecture. You will learn how to install and set up GitLab on-premises and in the cloud, along with understanding how to migrate code bases from different systems, such as GitHub, Concurrent Versions System, Team Foundation Version Control, and Subversion. Later chapters will help you implement DevOps culture by introducing the workflow management tools in GitLab and continuous integration/continuous deployment (CI/CD). In addition to this, the book will guide you through installing GitLab on a range of cloud platforms, monitoring with Prometheus, and deploying an environment with GitLab. You'll also focus on the GitLab CI component to assist you with creating development pipelines and jobs, along with helping you set up GitLab runners for your own project. Finally, you will be able to choose a high availability setup that fits your needs and helps you monitor and act on results obtained after testing. By the end of this book, you will have gained the expertise you need to use GitLab features effectively, and be able to integrate all phases in the development process. What you will learnInstall GitLab on premises and in the cloud using a variety of configurationsConduct data migration from the SVN, TFS, CVS, and GitHub platforms to GitLabUse GitLab runners to develop different types of configurations in software developmentPlan and perform CI/CD by using GitLab featuresMonitor and secure your software architecture using Prometheus and GrafanaImplement DevOps culture by introducing workflow management tools in GitLabWho this book is for If you are a software developer, DevOps professional, or any developer who wants to master GitLab for productive repository management in your day-to-day tasks, this book is for you. Basic understanding of the software development workflow is assumed.

The Language of Architecture Dec 30 2019 DIVLearning a new discipline is similar to learning a new language; in order to master the foundation of architecture, you must first master the basic building blocks of its language – the definitions, function, and usage. Language of Architecture provides students and professional architects with the basic elements of architectural design, divided into twenty-six easy-to-comprehend chapters. This visual reference includes an introductory, historical view of the elements, as well as an overview of how these elements can and have been used across multiple design disciplines./divDIV /divDIVWhether you're new to the field or have been an architect for years, you'll want to flip through the pages of this book throughout your career and use it as the go-to reference for inspiration, ideas, and reminders of how a strong knowledge of the basics allows for meaningful, memorable, and beautiful fashions that extend beyond trends./divDIV /divDIVThis comprehensive learning tool is the one book you'll want as a staple in your library./divDIV /div

Mastering Microsoft Azure Infrastructure Services Jan 29 2020 Understand, create, deploy, and maintain a public cloud using Microsoft Azure Mastering Microsoft Azure Infrastructure Services guides you through the process of creating and managing a public cloud and virtual network using Microsoft Azure. With step-by-step instruction and clear explanation, this book equips you with the skills required to provide services both on-premises and off-premises through full virtualization, providing a deeper understanding of Azure's capabilities as an infrastructure service. Each chapter includes online videos that visualize and enhance the concepts presented in the book, and access to a Windows app that provides instant Azure updates and demonstrates the process of going from on-premises to public cloud via Azure. Coverage includes storage customization, connectivity, virtual networks, backing up, hybrid environments, System Center management, and more, giving you everything you need to understand, evaluate, deploy, and maintain environments that utilize Microsoft Azure. Understand cost, options, and applications of Infrastructure as a Service (IaaS) Enable on- and off-premises connectivity to Azure Customize Azure templates and management processes Exploit key technologies and embrace the hybrid environment Mastering Microsoft Azure Infrastructure Services is your total solution.

Writing Architecture Jan 23 2022 For ages, architects have been criticized for speaking an insular language, known to some as "archispeak." Writing Architecture considers the process, methods, and value of architecture writing based on Carter Wiseman's 30 years of personal experience in writing, editing, and teaching in young architects how to write. This book creatively tackles a problematic issue that Wiseman considers to be a crucial characteristic of successful architecture writing: clarity of thinking and expression. He argues that because we live our lives within the built environment, architecture is the most comprehensive and complex of all art forms. Even brilliantly inspired and complex architectural structures would only amount to misunderstood abstractions without the support and reinforcement of the clear explanation. Written as a primer for both college level students and practitioners, Writing Architecture acknowledges and explores the boundaries between different techniques of architecture writing from myriad perspectives and purposes. A poetic description of the beauty and impact of a bridge will not illuminate the mechanical knowledge housed in the structure, but at the same time, dense architectural theory will not encourage individuals experiencing and supporting the bridge to perceive significance and usefulness in the design. Using excerpts and from writers in different genres and from different historical periods, Wiseman offers a unique and authoritative perspective on comprehensible writing skills needed for success.

Mastering Virtual Machine Manager 2008 R2 Jun 03 2020 One-of-a-kind guide from Microsoft insiders on Virtual Machine Manager 2008 R2! What better way to learn VMM 2008 R2 than from the high-powered Microsoft program managers themselves? This stellar author team takes you under the hood of VMM 2008 R2, providing intermediate and advanced coverage of all features. Walks you through Microsoft's new System Center Virtual Machine Manager 2008, a unified system for managing all virtual and physical assets; VMM 2008 not only supports Windows Server 2008 Hyper-V, but also VMware ESXas well! Features a winning author team behind the new VMM Describes all the new and enhanced features of VMM 2008 R2 and devotes ample time to how it also supports top competitors VMware ES Uses a hands-on approach, giving you plenty of practical examples to clarify concepts Open this in-depth guide and discover techniques and processes you can put to immediate use.

Mastering E-Business Jun 23 2019 e-Business – business collaborations enabled through information and communication technologies – is an essential activity for any business organization and constitutes a significant and growing sector. This textbook presents an innovative teaching framework to help students gain a thorough understanding of the principles of this vital aspect of business and management. Casting aside the over-complicated and narrow introductions of other textbooks, Grefen presents, analyzes and explains the principles of e-Business with refreshing clarity. The book covers both the business and technology aspects of this topic, using a unique

framework integrating: Business – focuses on why a specific e-Business scenario exists and how an organization can profit from it Organization – analyzes how organizations and their processes are structured to achieve strategic goals Architecture – explains the high level design of advanced information systems to describe how e-Business functions Technology – examines the technological implementation of e-Business scenarios using a wide variety of ingredients from IT Mastering e-Business offers a well-structured overview of all aspects of e-Business and is an essential read for all students and professionals interested in this central aspect of modern, global business.

Paul F. Aubin's Mastering Revit Architecture 2010 Jul 05 2020 Master the software that industry professionals are using to create compelling architecture with PAUL F. AUBIN'S MASTERING REVIT ARCHITECTURE 2010! Experienced-based practical advice is at the core of this concise reference guide by veteran author Paul F. Aubin, who makes learning Autodesk Revitr Architecture 2010 easier than ever. Designed to shorten the learning curve, this book focuses squarely on the rationale and practicality of the Revit Architecture process through a series of hands-on lessons that promote a clear sense of the value of the software and an understanding of each tool's potential. In completing building design projects successfully, users will develop a first hand knowledge of what it takes to build design development models and create a complete set of construction documents for architectural production. Benefits: NEW! Includes changes and additions specific to Revit Architecturer 2010. NEW! Includes changes and additions specific to Revit Architecturer 2010. NEW! New screen shots show modifications to the user interface. NEW! New trim size is 8.5X11 to present screen shots and step-by-step instructions on a larger page. NEW! New Quick Start videos can be viewed at your own pace using asynchronous clips featuring instruction and tips from the author. Introduces Revit tools by emphasizing the "why" as well as the "how" of using the software to create architecture. Explains complex material in a straightforward manner so that all concepts can be mastered. Practical, project-focused exercises encourage you to "learn by doing" for a more solid understanding of the building design process. Informative "Power User/BIM Manager" tips enlighten you on what is required to manage Building Information Modeling (BIM) in an architectural setting. New Quick Start videos can be viewed at your convenience using asynchronous clips featuring instruction and tips from the author. NEW! New screen shots show modifications to t

Mastering Kafka Streams and ksqlDB Nov 28 2019 Working with unbounded and fast-moving data streams has historically been difficult. But with Kafka Streams and ksqlDB, building stream processing applications is easy and fun. This practical guide shows data engineers how to use these tools to build highly scalable stream processing applications for moving, enriching, and transforming large amounts of data in real time. Mitch Seymour, data services engineer at Mailchimp, explains important stream processing concepts against a backdrop of several interesting business problems. You'll learn the strengths of both Kafka Streams and ksqlDB to help you choose the best tool for each unique stream processing project. Non-Java developers will find the ksqlDB path to be an especially gentle introduction to stream processing. Learn the basics of Kafka and the pub/sub communication pattern Build stateless and stateful stream processing applications using Kafka Streams and ksqlDB Perform advanced stateful operations, including windowed joins and aggregations Understand how stateful processing works under the hood Learn about ksqlDB's data integration features, powered by Kafka Connect Work with different types of collections in ksqlDB and perform push and pull queries Deploy your Kafka Streams and ksqlDB applications to production

Mastering Kubernetes Feb 21 2022 Master the art of container management utilizing the power of Kubernetes. About This Book This practical guide demystifies Kubernetes and ensures that your clusters are always available, scalable, and up to date Discover new features such as autoscaling, rolling updates, resource quotas, and cluster size Master the skills of designing and deploying large clusters on various cloud platforms Who This Book Is For The book is for system administrators and developers who have intermediate level of knowledge with Kubernetes and are now waiting to master its advanced features. You should also have basic networking knowledge. This advanced-level book provides a pathway to master Kubernetes. What You Will Learn Architect a robust Kubernetes cluster for long-time operation Discover the advantages of running Kubernetes on GCE, AWS, Azure, and bare metal See the identity model of Kubernetes and options for cluster federation Monitor and troubleshoot Kubernetes clusters and run a highly available Kubernetes Create and configure custom Kubernetes resources and use third-party resources in your automation workflows Discover the art of running complex stateful applications in your container environment Deliver applications as standard packages In Detail Kubernetes is an open source system to automate the deployment, scaling, and management of containerized applications. If you are running more than just a few containers or want automated management of your containers, you need Kubernetes. This book mainly focuses on the advanced management of Kubernetes clusters. It covers problems that arise when you start using container orchestration in production. We start by giving you an overview of the guiding principles in Kubernetes design and show you the best practises in the fields of security, high availability, and cluster federation. You will discover how to run complex stateful microservices on Kubernetes including advanced features as horizontal pod autoscaling, rolling updates, resource quotas, and persistent storage back ends. Using real-world use cases, we explain the options for network configuration and provides guidelines on how to set up, operate, and troubleshoot various Kubernetes networking plugins. Finally, we cover custom resource development and utilization in automation and maintenance workflows. By the end of this book, you'll know everything you need to know to go from intermediate to advanced level. Style and approach Delving into the design of the Kubernetes platform, the reader will be exposed to the advanced features and best practices of Kubernetes. This book will be an advanced level book which will provide a pathway to master Kubernetes

Mastering VMware vSphere 6.7 May 03 2020 Unleash the benefits of VMware vSphere 6.7 to provide a powerful, flexible and secure digital infrastructure Key FeaturesDeep dive into areas like management, security, scalability, availability and more with vSphere 6.7Design, deploy and manage VMware vSphere virtual datacentersImplement monitoring and security of VMware workloads with easeBook Description vSphere 6.7 is the latest release of VMware's industry-leading, virtual cloud platform. It allows organisations to move to hybrid cloud computing by enabling them to run, manage, connect and secure applications in a common operating environment. This up-to-date, 2nd edition provides complete coverage of vSphere 6.7. Complete with step-by-step explanations of essential concepts, practical examples and self-assessment questions, you will begin with an overview of the products, solutions and features of the vSphere 6.7 suite. You'll learn how to design and plan a virtual infrastructure and look at the workflow and installation of components. You'll gain insight into best practice configuration, management and security. By the end the book you'll be able to build your own VMware vSphere lab that can run even the most demanding of workloads. What you will learnExplore the immense functionality of vSphere 6.7Design, manage and administer a virtualization environmentGet tips for the VCP6-DCV and VCIX6-DCV examsUnderstand how to implement different migration techniques across different environmentsExplore vSphere 6.7s powerful capabilities for patching, upgrading and managing the configuration of virtual environments.Understand core vSphere componentsMaster resource management, disaster recovery, troubleshooting, monitoring and securityWho this book is for This book is for Administrators, Infrastructure Engineers, Architects, and Consultants with basic knowledge of VMware vSphere.

Microservice Architecture Oct 27 2019 Have you heard about the tremendous success Amazon and Netflix have had by switching to a microservice architecture? Are you wondering how this can benefit your company? Or are you skeptical about how it might work? If you've answered yes to any of these questions, this practical book will benefit you. You'll learn how to take advantage of the microservice architectural style for building systems, and learn from the experiences of others to adopt and execute this approach most successfully.

An Architect's Journey Mar 25 2022 An Architect's Journey - Mastering Future Trends in the Anthropocene is a journey into the future of architecture and mastering the Anthropocene's dangerous forces. The book demonstrates how architects and building professionals can lead the way to overcome climate change and the related perils of the Anthropocene by mastering future trends in the design domain. Captivating narratives show how architects can shift their emphasis from aesthetic object-making to meaningful and extraordinary achievement by understanding society's needs and expectations as they critically address the book's thesis. Can architecture shift from its resource-consumptive nature to become a productive, regenerative project that supports urban agriculture and reforestation, serves as a potable water source, produces net positive renewable energy, captures carbon, recycles and converts waste streams into usable materials, while allowing unlimited opportunities for developing new architectural forms and features that increase human and environmental performance without sacrifice to artistic expression and creative experimentation? An Architect's Journey provides new tools, methods, and strategies necessary to make architecture vitally more significant and instructs readers how to apply more aggressive sustainable practices to their work while achieving new modes of artistic expression. The future directions defining the next few decades support a long-range forecast of unlimited opportunity mixed with turbulence, uncertainty, and peril. To succeed, architects and building professionals must strive for positions of leadership, contradict the status quo, expand conventional thinking, behave un-conventionally, abandon exclusive theories, innovate from a framework of multiple perspectives, and skillfully navigate the consequences of difficult choices and actions through informed, collaborative, and integrated practices as forecast by An Architect's Journey.

Integrated Practice in Architecture Jul 29 2022 Endorsed by The American Institute of Architects, this work is about integrated practice in architecture, which is the collaborative design, construction, and life-cycle management of buildings.

Mastering Microservices with Java 9 Mar 01 2020 Master the art of implementing scalable microservices in your production environment with ease About This Book Use domain-driven design to build microservices Use Spring Cloud to use Service Discovery and Registeration Use Kafka, Avro and Spring Streams for implementing event based microservices Who This Book Is For This book is for Java developers who are familiar with the microservices architecture and now wants to take a deeper dive into effectively implementing microservices at an enterprise level. A reasonable knowledge level and understanding of core microservice elements and applications is expected. What You Will Learn Use domain-driven design to design and implement microservices Secure microservices using Spring Security Learn to develop REST service development Deploy and test microservices Troubleshoot and debug the issues faced during development Learning best practices and common principals about microservices In Detail Microservices are the next big thing in designing scalable, easy-to-maintain applications. It not only makes app development easier, but also offers great flexibility to utilize various resources optimally. If you want to build an enterprise-ready implementation of the microservices architecture, then this is the book for you! Starting off by understanding the core concepts and framework, you will then focus on the high-level design of large software projects. You will gradually move on to

setting up the development environment and configuring it before implementing continuous integration to deploy your microservice architecture. Using Spring security, you will secure microservices and test them effectively using REST Java clients and other tools like RxJava 2.0. We'll show you the best patterns, practices and common principals of microservice design and you'll learn to troubleshoot and debug the issues faced during development. We'll show you how to design and implement reactive microservices. Finally, we'll show you how to migrate a monolithic application to microservices based application. By the end of the book, you will know how to build smaller, lighter, and faster services that can be implemented easily in a production environment. Style and approach This book starts from the basics, including environment setup and provides easy-to-follow steps to implement the sample project using microservices.

Mastering Architecture May 27 2022 It is easy for even the most accomplished of designers to lose sight of their higher creative goals, once they are in ensconced in practice and burdened by the everyday concerns of running an office and overseeing complex projects. However, it is essential for any architect aspiring to achieve a mastery of their profession to retain an ongoing awareness and understanding of their creative development. This book is a touchstone for architects who want to get back to a creative form of practice, in order to continue progressing and evolving their work. Mastering Architecture draws on the research of approximately fifty architects who have taken a close look at the nature of their own mastery. This research into mastery reveals things that every practitioner should know about their creative practice – things which most architects are only aware of at an intuitive level. The book flags up personal attributes, such as stamina, creative energy and intellectual capital, which are intrinsic to dynamic practice. It also suggests ways in which practitioners can self-curate their positions within the triangle of their creativity, evolving not only the cultural structure of their profession but the wider world in which they operate.

Mastering API Architecture Dec 10 2020 Most organizations with a web presence build and operate APIs; the doorway for customers to interact with the company's services. Designing, building, and managing these critical programs affect everyone in the organization, from engineers and product owners to C-suite executives. But the real challenge for developers and solution architects is creating an API platform from the ground up. With this practical book, you'll learn strategies for building and testing REST APIs that use API gateways to combine offerings at the microservice level. Authors James Gough, Daniel Bryant, and Matthew Auburn demonstrate how simple additions to this infrastructure can help engineers and organizations migrate to the cloud; and open the opportunity to connect internal services using technologies like a service mesh. Learn API fundamentals and architectural patterns for building an API platform Use practical examples to understand how to design, build, and test API-based systems Deploy, operate, and configure key components of an API platform Use API gateways and service meshes appropriately, based on case studies Understand core security and common vulnerabilities in API architecture Secure data and APIs using threat modeling and technologies like OAuth2 and TLS Learn how to evolve existing systems toward API- and cloud-based architectures

Mastering ArchiMate Edition 3.1 Jul 25 2019 Mastering ArchiMate Edition 3.1 is the fourth edition of a much praised book about the ArchiMate(R) Enterprise Architecture Modeling Language, which is a standard and a Registered Trade Mark of The Open Group. The book gives an introduction to the language, then goes on to show you key aspects of successful modeling, and many different patterns for its use. From Business to Infrastructure, from Risk & Security to Application Exploitation and Maintenance. While the aim of the book is to teach the language, it often also offers necessary background, so that the patterns can make sense to the reader not familiar with a subject. Thus, it also contains introductions to subjects such as virtualization, bitcoin/blockchain, infrastructure as code, processes versus functions, SOA/API, ESB, Terminal Services, etc. It also contains a short introduction to BPMN(TM) in order to describe a linking of both major languages. Forewords by Marc Lankhorst and Jean-Baptiste Sarrodie. Gerben Wierda (1961) is author of Chess and the Art of Enterprise Architecture, and is Lead Architect at APG, one of the largest Fiduciary Managers in the world. Before, he was Lead Architect of the Judiciary of The Netherlands, and Lead Architect of APG Asset Management. He has overseen the construction of one of the largest single ArchiMate models in the world to date. He holds an M.Sc. in Physics from the University of Groningen and an MBA from RSM Erasmus, Rotterdam.

Mastering Archimate Edition III Sep 06 2020 Third edition of the much praised introduction and in-depth book that teaches the leading enterprise architecture modeling language ArchiMate 3. Includes explanations for many subjects that are modeled, such as SOA/API, ESB, Bitcoin/blockchain, Infrastructure as Code, etc. Also contains a BPMN primer. With 380 diagrams.

Mastering Apache Storm Nov 08 2020 Master the intricacies of Apache Storm and develop real-time stream processing applications with ease About This Book Exploit the various real-time processing functionalities offered by Apache Storm such as parallelism, data partitioning, and more Integrate Storm with other Big Data technologies like Hadoop, HBase, and Apache Kafka An easy-to-understand guide to effortlessly create distributed applications with Storm Who This Book Is For If you are a Java developer who wants to enter into the world of real-time stream processing applications using Apache Storm, then this book is for you. No previous experience in Storm is required as this book starts from the basics. After finishing this book, you will be able to develop not-so-complex Storm applications. What You Will Learn Understand the core concepts of Apache Storm and real-time processing Follow the steps to deploy multiple nodes of Storm Cluster Create Trident topologies to support various message-processing semantics Make your cluster sharing effective using Storm scheduling Integrate Apache Storm with other Big Data technologies such as Hadoop, HBase, Kafka, and more Monitor the health of your Storm cluster In Detail Apache Storm is a real-time Big Data processing framework that processes large amounts of data reliably, guaranteeing that every message will be processed. Storm allows you to scale your data as it grows, making it an excellent platform to solve your big data problems. This extensive guide will help you understand right from the basics to the advanced topics of Storm. The book begins with a detailed introduction to real-time processing and where Storm fits in to solve these problems. You'll get an understanding of deploying Storm on clusters by writing a basic Storm Hello World example. Next we'll introduce you to Trident and you'll get a clear understanding of how you can develop and deploy a trident topology. We cover topics such as monitoring, Storm Parallelism, scheduler and log processing, in a very easy to understand manner. You will also learn how to integrate Storm with other well-known Big Data technologies such as HBase, Redis, Kafka, and Hadoop to realize the full potential of Storm. With real-world examples and clear explanations, this book will ensure you will have a thorough mastery of Apache Storm. You will be able to use this knowledge to develop efficient, distributed real-time applications to cater to your business needs. Style and approach This easy-to-follow guide is full of examples and real-world applications to help you get an in-depth understanding of Apache Storm. This book covers the basics thoroughly and also delves into the intermediate and slightly advanced concepts of application development with Apache Storm.

The Art and Architecture of Academic Writing Jan 11 2021 This book is a bridge to confident academic writing for advanced non-native English users. It emphasizes depth over breadth through mastery of core writing competencies and strategies which apply to most academic disciplines and genres. Tailored to students in EMI programs, the content was piloted and revised during a longitudinal writing study. The innovative approach prepares students to write for the academic community through the dual lenses of Art (developing a writer's voice through choices in language, style, and topics) and Architecture (mastering norms of academic language, genre, and organization.) The user-friendly text maximizes time for writing practice and production by avoiding lengthy readings. Part 1 builds skills and confidence in writing by focusing on assignments that do not require research. Part 2 applies newly mastered principles, skills, and strategies to research-based writing. Students learn to incorporate thesis, research, and evidence into a process for academic writing by following the AWARE framework (Arranging to write, Writing, Assessing, Revising, and Editing.)

Mastering AutoCAD Architecture 2010 Nov 20 2021 MASTERING AUTOCAD ® ARCHITECTURE 2010, International Edition explains the process of creating professional-quality building design projects using the newest release of AutoCAD ® Architecture (formally Autodesk ® Architectural Desktop). Using a project-based approach, this text goes beyond a simple rundown of tools and commands to focus on the rationale and practicality of the software through life-tested, practical lessons that emphasize the "why" as well as the "how" in order to help users complete projects successfully. Text and lessons combine to deliver a clear sense of the value of the tools introduced as well each tool's potential. The result is a fully up-to-date resource that shortens the learning curve and builds confidence and comfort in using the software as a tool to create architecture.

Mastering Hadoop 3 Apr 13 2021 A comprehensive guide to mastering the most advanced Hadoop 3 concepts Key FeaturesGet to grips with the newly introduced features and capabilities of Hadoop 3Crunch and process data using MapReduce, YARN, and a host of tools within the Hadoop ecosystemSharpen your Hadoop skills with real-world case studies and codeBook Description Apache Hadoop is one of the most popular big data solutions for distributed storage and for processing large chunks of data. With Hadoop 3, Apache promises to provide a high-performance, more fault-tolerant, and highly efficient big data processing platform, with a focus on improved scalability and increased efficiency. With this guide, you'll understand advanced concepts of the Hadoop ecosystem tool. You'll learn how Hadoop works internally, study advanced concepts of different ecosystem tools, discover solutions to real-world use cases, and understand how to secure your cluster. It will then walk you through HDFS, YARN, MapReduce, and Hadoop 3 concepts. You'll be able to address common challenges like using Kafka efficiently, designing low latency, reliable message delivery Kafka systems, and handling high data volumes. As you advance, you'll discover how to address major challenges when building an enterprise-grade messaging system, and how to use different stream processing systems along with Kafka to fulfil your enterprise goals. By the end of this book, you'll have a complete understanding of how components in the Hadoop ecosystem are effectively integrated to implement a fast and reliable data pipeline, and you'll be equipped to tackle a range of real-world problems in data pipelines. What you will learnGain an in-depth understanding of distributed computing using Hadoop 3Develop enterprise-grade applications using Apache Spark, Flink, and moreBuild scalable and high-performance Hadoop data pipelines with security, monitoring, and data governanceExplore batch data processing patterns and how to model data in HadoopMaster best practices for enterprises using, or planning to use, Hadoop 3 as a data platformUnderstand security aspects of Hadoop, including authorization and authenticationWho this book is for If you want to become a big data professional by mastering the advanced concepts of Hadoop, this book is for you. You'll also find this book useful if you're a Hadoop professional looking to strengthen your knowledge of the Hadoop ecosystem. Fundamental knowledge of the Java programming language and basics of Hadoop is necessary to get started with this book.

Mastering Revit Architecture 2010 Dec 22 2021 As Autodesk's fastest-growing software package, Revit Architecture offers a new version that will require Revit users of

all areas of expertise—architects, project managers, designers, contractors, and building owners—to learn new skills. As the only complete tutorial and reference for the newest version of Revit software, this book provides you with a hands-on look at the Revit interface, explores key modeling principles, looks at design options and features, and shows how to best present designs, and discusses proven workflows and best practices. The in-depth discussions, real-world examples, and detailed tutorials are drawn from the author's professional experience using the program. For Instructors: Teaching supplements are available for this title.

Mastering Non-Functional Requirements Aug 30 2022 This book covers the most critical 24 NFRs that are applicable to IT applications and systems. About This Book Explains three stages of nonfunctional requirements, that is, analysis, architecture, and assessment In-depth knowledge of NFR framework and taxonomy that provides guidance around the modelling phase for the NFRs Coverage of 24 critical and pivotal NFRs, including the analysis, architecture, and assessment. Who This Book Is For The primary audience for this title are the gamut of roles starting from IT consultant to chief architects who are responsible to deliver strategic, tactical, and operational engagements for fortune 100 customers worldwide. Nonfunctional requirements are the key to any software / IT program. They cannot be overlooked or ignored. The book provides a comprehensive approach from analysis, architecture, and measurement of nonfunctional requirements. The book includes considerations for bespoke (Java, .Net, and COTS applications). These are applicable to IT applications from various domains. The book outlines the methodology for capturing the NFRs and also describes a framework that can be leveraged by analysts and architects for tackling NFRs for various engagements. The audience for this book include business analysts, enterprise architects, business architects, solution architects, technical architects/designers, domain/security/integration architects, software developers, support engineers and test engineers, technical project managers, project leads/technical leads/technical project managers, and students from the computer science/IT stream What You Will Learn Learn techniques related to the analysis, architecture, and monitoring of NFRs Understand the various tools, techniques, and processes in order to improve the overall quality of the desired outcomes Embrace the best practices of architecting, metrics, and success factors for NFRs Identify the common pitfalls to be avoided and the patterns to leverage Understand taxonomy and framework for NFRs Learn the design guidelines for architecting applications and systems relating to NFRs Abstract different methodologies to analyze and gather NFRs In Detail Non-functional Requirements are key to any software/IT program and cannot be overlooked or ignored. This book provides a comprehensive approach to the analysis, architecture, and measurement of NFRs. It includes considerations for bespoke Java, .NET, and COTS applications that are applicable to IT applications/systems in different domains. The book outlines the methodology for capturing the NFRs and also describes a framework that can be leveraged by analysts and architects for tackling NFRs for various engagements. This book starts off by explaining the various KPIs, taxonomies, and methods for identifying NFRs. Learn the design guidelines for architecting applications and systems relating to NFRs and design principles to achieve the desired outcome. We will then move on to various key tiers/layers and patterns pertaining to the business, database, and integrating tiers. After this, we will dive deep into the topics pertaining to techniques related to monitoring and measurement of NFRs, such as sizing, analytical modeling, and quality assurance. Lastly, we end the book by describing some pivotal NFRs and checklists for the software quality attributes related to the business, application, data, and infrastructure domains. Style and approach The book takes a pragmatic approach, describing various techniques related to the analysis of NFRs, the architecture of NFRs, and assessment of NFRs.

Mastering Autodesk Revit Architecture 2013 Sep 30 2022 Learn BIM the Revit Way Revit is Autodesk's industry-leading Building Information Modeling (BIM) software, and this Autodesk Official Training Guide thoroughly covers core Revit topics such as modeling, massing, sustainability, and more. It also brings you up to speed on advanced techniques such as using Revit in the cloud and how to go direct to fabrication. Organized by real-world workflows, this book covers the interface, templates, worksharing, modeling and massing, visualization techniques for different industries, sustainability, roofs and floors, stairs and railings, documentation, and much more. This Autodesk Official Training Guide teaches you how to use the leading BIM software and also serves as a study aid for Autodesk's Certified Associate and Certified Professional exams Organized according to actual workflows, the book begins with an explanation of key BIM concepts, familiarizes you with the interface, and then moves into actual application Covers modeling and massing, the Family Editor, visualization techniques for various industries, documentation, annotation and detailing, and how to work with complex walls, roofs, floors, stairs, and railings Companion website features before-and-after tutorial files, so readers can jump in at any point Mastering Autodesk Revit Architecture helps you learn Revit in a context that makes real-world sense.

Mastering Autodesk Revit 2020 Jun 27 2022 The best-selling Revit guide, now more complete than ever with all-new coverage on the 2020 release Mastering Autodesk Revit 2020 is packed with focused discussions, detailed exercises, and real-world examples to help you get up to speed quickly on the latest version of Autodesk Revit. Organized according to how you learn and implement the software, this book provides expert guidance for all skill levels. Hands-on tutorials allow you to dive right in and start accomplishing vital tasks, while compelling examples illustrate how Revit for Architecture is used in every project. Available online downloads include before-and-after tutorial files and additional advanced content to help you quickly master this powerful software. From basic interface topics to advanced visualization techniques and documentation, this invaluable guide is your ideal companion through the Revit workflow. Whether you're preparing for Autodesk certification exams or just want to become more productive with the architectural design software, practical exercises and expert instruction will get you where you need to be. Understand key BIM and Revit concepts and master the Revit interface Delve into templates, work-sharing, and managing Revit projects Master modeling and massing, the Family Editor, and visualization techniques Explore documentation, including annotation, detailing, and complex structures BIM software has become a mandatory asset in today's architecture field; automated documentation updates reduce errors while saving time and money, and Autodesk's Revit is the industry leader in the BIM software space.

Mastering Spring 5.0 Jun 15 2021 Develop cloud native applications with microservices using Spring Boot, Spring Cloud, and Spring Cloud Data Flow About This Book Explore the new features and components in Spring Evolve towards micro services and cloud native applications Gain powerful insights into advanced concepts of Spring and Spring Boot to develop applications more effectively Understand the basics of Kotlin and use it to develop a quick service with Spring Boot Who This Book Is For This book is for an experienced Java developer who knows the basics of Spring, and wants to learn how to use Spring Boot to build applications and deploy them to the cloud. What You Will Learn Explore the new features in Spring Framework 5.0 Build microservices with Spring Boot Get to know the advanced features of Spring Boot in order to effectively develop and monitor applications Use Spring Cloud to deploy and manage applications on the Cloud Understand Spring Data and Spring Cloud Data Flow Understand the basics of reactive programming Get to know the best practices when developing applications with the Spring Framework Create a new project using Kotlin and implement a couple of basic services with unit and integration testing In Detail Spring 5.0 is due to arrive with a myriad of new and exciting features that will change the way we've used the framework so far. This book will show you this evolution—from solving the problems of testable applications to building distributed applications on the cloud. The book begins with an insight into the new features in Spring 5.0 and shows you how to build an application using Spring MVC. You will realize how application architectures have evolved from monoliths to those built around microservices. You will then get a thorough understanding of how to build and extend microservices using Spring Boot. You will also understand how to build and deploy Cloud-Native microservices with Spring Cloud. The advanced features of Spring Boot will be illustrated through powerful examples. We will be introduced to a JVM language that's quickly gaining popularity - Kotlin. Also, we will discuss how to set up a Kotlin project in Eclipse. By the end of the book, you will be equipped with the knowledge and best practices required to develop microservices with the Spring Framework. Style and approach This book follows an end-to-end tutorial approach with lots of examples and sample applications, covering the major building blocks of the Spring framework.

Mastering ArchiMate Mar 13 2021 Mastering ArchiMate is a book about the ArchiMate(r) Enterprise Architecture Modeling Language, which is an open standard and a Registered Trade Mark of The Open Group. This book gives an introduction to the language and then goes on to show you many different patterns for its use. From Business to Infrastructure, from Risk & Security to Application Exploitation and Maintenance. The first edition was published in 2012 and quickly became widely used. The Open Group even pub- lished a white paper "ArchiMate, Understanding the Basics" that was almost literally taken from the ArchiMate Basics chapter of the first edition of this book. This second edition has twice the diagrams in a book roughly one and a half times the pages of the first edition. There are several new subjects, like linking ArchiMate to BPMN. It has been updated to ArchiMate 2.1. Gerben Wierda (1961) is Lead Architect of APG Asset Management, one of the largest Fiduciary Managers in the world. He has overseen the construction of one of the largest single ArchiMate models in the world to date. He holds an M.Sc. in Physics from the University of Groningen and an MBA from RSM Erasmus, Rotterdam.

Mastering Blockchain Programming with Solidity Aug 25 2019 Discover the advanced features of Solidity that will help you write high-quality code and develop secure smart contracts with the latest ERC standards Key Features Delve into Solidity and understand control structures, function calls, and variable scopes Explore tools for developing, testing, and debugging your blockchain applications Learn advanced design patterns and best practices for writing secure smart contracts Book Description Solidity is among the most popular and contract-oriented programming languages used for writing decentralized applications (DApps) on Ethereum blockchain. If you're looking to perfect your skills in writing professional-grade smart contracts using Solidity, this book can help. You will get started with a detailed introduction to blockchain, smart contracts, and Ethereum, while also gaining useful insights into the Solidity programming language. A dedicated section will then take you through the different Ethereum Request for Comments (ERC) standards, including ERC-20, ERC-223, and ERC-721, and demonstrate how you can choose among these standards while writing smart contracts. As you approach later chapters, you will cover the different smart contracts available for use in libraries such as OpenZeppelin. You'll also learn to use different open source tools to test, review and improve the quality of your code and make it production-ready. Toward the end of this book, you'll get to grips with techniques such as adding security to smart contracts, and gain insights into various security considerations. By the end of this book, you will have the skills you need to write secure, production-ready smart contracts in Solidity from scratch for decentralized applications on Ethereum blockchain. What you will learn Test and debug smart contracts with Truffle, Ganache, Remix, and MetaMask Gain insights into maintaining code quality with different tools Get up to speed with ERC standards such as ERC-20 and ERC-721 Become adept at using design patterns while writing smart contracts Use MultiSignature (MultiSig) wallets and improve the security of contracts Use Oracle services to fetch information from outside the blockchain Who this book is for This book is for developers and data scientists who want to learn Ethereum,

blockchain, and Solidity to write smart contracts and develop production-ready code. Basic knowledge of Solidity is assumed.

Mastering Autodesk 3ds Max Design 2010 Sep 18 2021 The only comprehensive tutorial/reference exclusively devoted to Autodesk's robust architectural visualization software 3ds Max Design is a powerful real-time 3D design, modeling, and animation tool for architectural visualizations. This book covers all the software's crucial features, including how to simulate and analyze sun, sky, and artificial light-crucial factors for sustainable design-and how to define and assign realistic materials and work with AutoCAD and Revit files. You'll quickly learn how to get the most from this powerful software's 3D modeling, animation, and rendering capabilities. McFarland is an Autodesk Authorized Author with professional experience in creating complex visualizations for a large property development company. His real-world focus means workflows and instructions are professional and proven, and projects will include those that pros work on every day. Uses actual examples from the author's experience, including retail spaces, small offices, residential developments, and more Concise explanations, focused examples, step-by-step instructions, and hands-on tutorials teach the basics and fine points of the software Covers all the essential features, such as how to simulate and analyze sun, sky, and artificial light Demonstrates efficient use of the interface; how to work with Revit and AutoCAD files; using data, scene management, and solid modeling tools; rendering real-world surfaces; and setting up animated walkthroughs Mastering 3ds Max Design 2010 provides a practical education in using this powerful architectural visualization tool.