It Infrastructure Architecture Building Blocks

It Infrastructure Architecture - Infrastructure Building Blocks and Concepts Second Edition Business Architecture Spatializing Justice *IT Infrastructure Architecture - Infrastructure Building Blocks and Concepts Third Edition* The Yale Art + Architecture Building *Whitney Museum of American Art* **The John Hancock Center Basics Urban Building Blocks** The Open Group Architecture Framework TOGAF™ Version 9 **TOGAF® Version 9.1 The Open Group Architecture Framework TOGAF Version 9** Development of Organization-specific Enterprise Architecture Modeling Languages Using Building Blocks Software Architecture 1 **Basics Urban Building Blocks Designing Hexagonal Architecture with Java SOA Source Book Building Web Apps with Spring 5 and Angular** The Neurocognition of Dance *Business Architecture* Designed for Digital Righting Software **Building Blocks Material Strategies** IT Infrastructure Architecture - Infrastructure Building Blocks and Concepts Third Edition **Software Architecture Knowledge Management Practical Industrial Internet of Things Security** *TOGAF® Version 9.1 A Pocket Guide* **Building Evolutionary Architectures** *Messana O'Rorke* **The United Nations** *ArchiMate® 3.0.1 Specification* New Carbon Architecture **Guide to Enterprise IT Architecture Enterprise Business Architecture** *Refactoring Databases* Web Services **Enterprise Architecture Function Intel Threading Building Blocks Spatializing Justice: Building Blocks Architecting the Industrial Internet**

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Web Services Oct 21 2019 The first practical, hands-on guide to understanding and building Web services. Easy, proven techniques for making digital assets available anywhere, anytime. Real-world case study demonstrating interoperability across Java, J2EE and Microsoft. NET platforms. CD-ROM contains GLUE--a complete, intuitive, fast, and powerful platform for Web services.

The Open Group Architecture Framework TOGAF Version 9 Dec 15 2021 The Open Group Architecture Framework (TOGAF) is a framework a detailed method and a set of supporting tools for developing an enterprise architecture, developed by members of The Open Group Architecture Forum (www.opengroup.org/architecture).As a comprehensive, open method for enterprise architecture, TOGAF Version 9 complements, and can be

used in conjunction with, other frameworks that are more focused on specific aspects of architecture or for vertical sectors such as Government, Defense, and Finance.TOGAF may be used freely by any organization wishing to develop an enterprise architecture for use within that organization (subject to the Conditions of Use).This book is divided into seven main parts :PART I (Introduction) This part provides a high-level introduction to the key concepts of enterprise architecture and in particular the TOGAF approach. It contains the definitions of terms used throughout TOGAF and release notes detailing the changes between this version and the previous version of TOGAF.PART II (Architecture Development Method) This is the core of TOGAF. It describes the TOGAF Architecture Development Method (ADM) a step-by-step approach to developing an enterprise architecture.PART III (ADM Guidelines & Techniques) This part contains a collection of guidelines and techniques available for use in applying TOGAF and the TOGAF ADM.PART IV (Architecture Content Framework) This part describes the TOGAF content framework, including a structured metamodel for architectural artifacts, the use of re-usable architecture building blocks, and an overview of typical architecture deliverables.PART V (Enterprise Continuum & Tools) This part discusses appropriate taxonomies and tools to categorize and store the outputs of architecture activity within an enterprise.PART VI (TOGAF Reference Models) This part provides a selection of architectural reference models, which includes the TOGAF Foundation Architecture, and the Integrated Information Infrastructure Reference Model (III-RM).PART VII (Architecture Capability Framework) This part discusses the organization, processes, skills, roles, and responsibilities required to establish and operate an architecture function within an enterprise.

Whitney Museum of American Art May 20 2022 The Building Blocks series presents icons of modern architecture as interpreted by Ezra Stoller, whose photography has defined the way postwar architecture has been viewed by architects, historians, and the public at large. Taken just after the completion of each project, these photographs provide a unique historical record of the buildings in use, documenting people, fashions, and furnishings of the period.

Spatializing Justice Aug 23 2022 A manifesto calling for a new kind of architecture that confronts social and economic inequality and uneven urban growth. Spatializing Justice calls for architects and urban designers to do more than design buildings and physical systems. Architects should take a position against inequality and practice accordingly. With these thirty short, manifesto-like texts—building blocks for a new kind of architecture—Spatializing Justice offers a practical handbook for confronting social and economic inequality and uneven urban growth in architectural and planning practice, urging practitioners to adopt approaches that range from redefining infrastructure to retrofitting McMansions. These building blocks call for expanded modes of practice, through which architects can imagine new spatial procedures, political and economic strategies, and modalities of sociability. Challenging existing exclusionary policies can advance a more experimental architecture not bound by formal parameters. Architects must think of themselves as designers not only of things but of civic processes, complicate the ideas of ownership and property, and imagine new sites of research, pedagogy, and intervention. As one of the texts advises, "The questions must be different questions if we want different answers." Copublished with Hatje Cantz Verlag

The Open Group Architecture Framework TOGAF™ Version 9 Feb 17 2022 The Open Group Architecture Framework (TOGAF) is a framework – a detailed method and a set of supporting tools – for developing an enterprise architecture, developed by members of The Open Group Architecture Forum (www.opengroup.org/architecture). As a comprehensive, open method for enterprise architecture, TOGAF Version 9 complements, and can be used in conjunction with, other frameworks that are more focused on specific aspects of architecture or for vertical sectors such as Government, Defense, and Finance. TOGAF may be used freely by any organization wishing to develop an enterprise architecture for use within that organization (subject to the Conditions of Use). This book is divided into seven main parts : PART I (Introduction) This part provides a high-level introduction to

the key concepts of enterprise architecture and in particular the TOGAF approach. It contains the definitions of terms used throughout TOGAF and release notes detailing the changes between this version and the previous version of TOGAF. PART II (Architecture Development Method) This is the core of TOGAF. It describes the TOGAF Architecture Development Method (ADM) – a step-by-step approach to developing an enterprise architecture. PART III (ADM Guidelines & Techniques) This part contains a collection of guidelines and techniques available for use in applying TOGAF and the TOGAF ADM. PART IV (Architecture Content Framework) This part describes the TOGAF content framework, including a structured metamodel for architectural artifacts, the use of re-usable architecture building blocks, and an overview of typical architecture deliverables. PART V (Enterprise Continuum & Tools) This part discusses appropriate taxonomies and tools to categorize and store the outputs of architecture activity within an enterprise. PART VI (TOGAF Reference Models) This part provides a selection of architectural reference models, which includes the TOGAF Foundation Architecture, and the Integrated Information Infrastructure Reference Model (III-RM). PART VII (Architecture Capability Framework) This part discusses the organization, processes, skills, roles, and responsibilities required to establish and operate an architecture function within an enterprise.

IT Infrastructure Architecture - Infrastructure Building Blocks and Concepts Third Edition Jul 22 2022 This book explains the concepts, history, and implementation of IT infrastructures. Although many of books can be found on each individual infrastructure building block, this is the first book to describe all of them: datacenters, servers, networks, storage, operating systems, and end user devices. The building blocks described in this book provide functionality, but they also provide the non-functional attributes performance, availability, and security. These attributes are explained on a conceptual level in separate chapters, and specific in the chapters about each individual building block. Whether you need an introduction to infrastructure technologies, a refresher course, or a study guide for a computer science class, you will find that the presented building blocks and concepts provide a solid foundation for understanding the complexity of today's IT infrastructures. This book can be used as part of IT architecture courses based on the IS 2010.4 curriculum.

The Neurocognition of Dance May 08 2021 Dance has always been an important aspect of all human cultures, and the study of human movement and action has become a topic of increasing relevance over the last decade, bringing dance into the focus of the cognitive sciences. This book discusses the wide range of interrelations between body postures and body movements as conceptualised in dance with perception, mental processing and action planning. The volume brings together cognitive scientists, psychologists, neuroscientists, choreographers, and ballet teachers, to discuss important issues regarding dance and cognition. First, scientists introduce ideas that offer different perspectives on human movement and therefore can be applied to dance. Secondly, professionals from the world of dance have their say, reporting on how their creative and pedagogical work relates to cognition and learning. Finally, researchers with personal links to the dance world demonstrate how neurocognitive methods are applied to studying different aspects related to dance. This book is suitable for students and professionals from the fields of psychology, neuropsychology, cognitive psychology, sport psychology and sport science, movement science, motor control, motor development, kinesiology, dance, choreography, dance education and dance therapy; to teachers who want to teach dance to students of any age.

Practical Industrial Internet of Things Security Aug 31 2020 Skillfully navigate through the complex realm of implementing scalable, trustworthy industrial systems and architectures in a hyper-connected business world. Key Features Gain practical insight into security concepts in the Industrial Internet of Things (IIoT) architecture Demystify complex topics such as cryptography and blockchain Comprehensive references to industry standards and security frameworks when developing IIoT blueprints Book Description Securing connected industries and autonomous systems is a top concern for the Industrial Internet of Things (IIoT) community. Unlike cybersecurity, cyber-physical security is an intricate discipline

that directly ties to system reliability as well as human and environmental safety. Practical Industrial Internet of Things Security enables you to develop a comprehensive understanding of the entire spectrum of securing connected industries, from the edge to the cloud. This book establishes the foundational concepts and tenets of IIoT security by presenting real-world case studies, threat models, and reference architectures. You'll work with practical tools to design risk-based security controls for industrial use cases and gain practical know-how on the multi-layered defense techniques including Identity and Access Management (IAM), endpoint security, and communication infrastructure. Stakeholders, including developers, architects, and business leaders, can gain practical insights in securing IIoT lifecycle processes, standardization, governance and assess the applicability of emerging technologies, such as blockchain, Artificial Intelligence, and Machine Learning, to design and implement resilient connected systems and harness significant industrial opportunities. What you will learn Understand the crucial concepts of a multi-layered IIoT security framework Gain insight on securing identity, access, and configuration management for large-scale IIoT deployments Secure your machine-to-machine (M2M) and machine-to-cloud (M2C) connectivity Build a concrete security program for your IIoT deployment Explore techniques from case studies on industrial IoT threat modeling and mitigation approaches Learn risk management and mitigation planning Who this book is for Practical Industrial Internet of Things Security is for the IIoT community, which includes IIoT researchers, security professionals, architects, developers, and business stakeholders. Anyone who needs to have a comprehensive understanding of the unique safety and security challenges of connected industries and practical methodologies to secure industrial assets will find this book immensely helpful. This book is uniquely designed to benefit professionals from both IT and industrial operations backgrounds.

Business Architecture Apr 07 2021 Build a Business Architecture Framework to enable your organization to grow and gracefully accommodate change. The practical approach described in this book can help you as a business architect, analyst, or manager, create reusable, adaptable, and manageable knowledge of your organization. Apply the full lifecycle from business strategy through implementation, and identify the required knowledge domains. Convert business strategy into usable and effective business designs which optimize investment decisions. Articulate what domain knowledge (the dots) needs to be collected, how these are connected, and which combinations provide the greatest opportunity if corrected. The book covers the main business architecture stages of 'Define the Business', 'Design the Business', 'Build the Business', and 'Operate the Business'. Build models of the external ecosystem, business stakeholders, business information, business processes, business capabilities, change prioritization, and performance management systems to support your change journey. This book is an essential companion guide for new business architects and analysts, and a valuable reference for experienced architects to enhance their practice.

SOA Source Book Jul 10 2021 Software services are established as a programming concept, but their impact on the overall architecture of enterprise IT and business operations is not well-understood. This has led to problems in deploying SOA, and some disillusionment. The SOA Source Book adds to this a collection of reference material for SOA. It is an invaluable resource for enterprise architects working with SOA.The SOA Source Book will help enterprise architects to use SOA effectively. It explains: What SOA is How to evaluate SOA features in business terms How to model SOA How to use The Open Group Architecture Framework (TOGAF™) for SOA SOA governance This book explains how TOGAF can help to make an Enterprise Architecture. Enterprise Architecture is an approach that can help management to understand this growing complexity.

Basics Urban Building Blocks Sep 12 2021 Our cities and neighborhoods are composed of urban building blocks and a knowledge of these elementary components is part of the basic equipment of city planning. It is absolutely essential for urban design that one understands their form and structure, their functional conditions, and the differentiation into private and public spheres, as well as the ways they are networked into their surroundings. Study of these city building blocks represents a first step toward understanding, and successfully developing the built structure of the

city as a physical and social habitat. Themes are - the row, - the block, - the courtyard (the block in reverse), - the passageway, - the line, - the solitaire, - the group, - the "shed".

Architecting the Industrial Internet Jun 16 2019 Learn the ins and outs of the Industrial Internet of Things through subjects ranging from its history and evolution, right up to what the future holds. About This Book Define solutions that can connect existing systems and newer cloud-based solutions to thousands of thousands of edge devices and industrial machines Identify, define, and justify Industrial Internet of Things (IIoT) projects, and design an application that can connect to and control thousands of machines Leverage the power and features of a platform to monitor, perform analytics, and maintain the Industrial Internet Who This Book Is For Architects who are interested in learning how to define solutions for the Industrial Internet will benefit immensely from this book. Relevant architect roles include enterprise architects, business architects, information architects, cloud solution architects, software architects, and others. The content is also relevant for technically inclined line of business leaders investing in these solutions. What You Will Learn Learn the history of the Industrial Internet and why an architectural approach is needed Define solutions that can connect to and control thousands of edge devices and machines Understand the significance of working with line of business leadership and key metrics to be gathered Connect business requirements to the functional architecture Gain the right expectation as to the capabilities of Industrial Internet applications and how to assess them Understand what data and analytics components should be included in your architecture solution Understand deployment trade-offs, management and security considerations, and the impact of emerging technologies In Detail The Industrial Internet or the IIoT has gained a lot of traction. Many leading companies are driving this revolution by connecting smart edge devices to cloud-based analysis platforms and solving their business challenges in new ways. To ensure a smooth integration of such machines and devices, sound architecture strategies based on accepted principles, best practices, and lessons learned must be applied. This book begins by providing a bird's eye view of what the IIoT is and how the industrial revolution has evolved into embracing this technology. It then describes architectural approaches for success, gathering business requirements, and mapping requirements into functional solutions. In a later chapter, many other potential use cases are introduced including those in manufacturing and specific examples in predictive maintenance, asset tracking and handling, and environmental impact and abatement. The book concludes by exploring evolving technologies that will impact IIoT architecture in the future and discusses possible societal implications of the Industrial Internet and perceptions regarding these projects. By the end of this book, you will be better equipped to embrace the benefits of the burgeoning IIoT. Style and approach This book takes a comprehensive approach to the Industrial Internet, thoroughly acquainting the reader with the concepts and philosophy of the IIoT. It provides a basis for defining an IIoT solution in a thoughtful manner and creating what will be viewed as a successful project.

Righting Software Feb 05 2021 Right Your Software and Transform Your Career Righting Software presents the proven, structured, and highly engineered approach to software design that renowned architect Juval Löwy has practiced and taught around the world. Although companies of every kind have successfully implemented his original design ideas across hundreds of systems, these insights have never before appeared in print. Based on first principles in software engineering and a comprehensive set of matching tools and techniques, Löwy's methodology integrates system design and project design. First, he describes the primary area where many software architects fail and shows how to decompose a system into smaller building blocks or services, based on volatility. Next, he shows how to flow an effective project design from the system design; how to accurately calculate the project duration, cost, and risk; and how to devise multiple execution options. The method and principles in Righting Software apply regardless of your project and company size, technology, platform, or industry. Löwy starts the reader on a journey that addresses the critical challenges of software development today by righting software systems and projects as well as careers—and possibly the software industry as a

whole. Software professionals, architects, project leads, or managers at any stage of their career will benefit greatly from this book, which provides guidance and knowledge that would otherwise take decades and many projects to acquire. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

Building Web Apps with Spring 5 and Angular Jun 09 2021 A complete guide to build robust and scalable web applications with Spring and Angular. About This Book This hands on guide will teach you how to build an end-to-end modern web application using Spring and Angular. It is easy to read and will benefit Java developers who have been used to develop the back-end part of web application while front-end (UI) has been left for UI developers. Learn the core aspects involved in developing the backend and the UI, right from designing to integrating and deploying. Who This Book Is For This book is targeted towards Java Web Developers with a basic knowledge of Spring who want to build complete web applications in a fast and effective way. They will want to gain a stronghold on both frontend and backend development to advance in their careers. What You Will Learn Set up development environment for Spring Web App and Angular app. Process web request and response and build REST API endpoints. Create data access components using Spring Web MVC framework and Hibernate Use Junit 5 to test your application Learn the fundamental concepts around building Angular Configure and use Routes and Components. Protect Angular app content from common web vulnerabilities and attacks. Integrate Angular apps with Spring Boot Web API endpoints Deploy the web application based on CI and CD using Jenkins and Docker containers In Detail Spring is the most popular application development framework being adopted by millions of developers around the world to create high performing, easily testable, reusable code. Its lightweight nature and extensibility helps you write robust and highly-scalable server-side web applications. Coupled with the power and efficiency of Angular, creating web applications has never been easier. If you want build end-to-end modern web application using Spring and Angular, then this book is for you. The book directly heads to show you how to create the backend with Spring, showing you how to configure the Spring MVC and handle Web requests. It will take you through the key aspects such as building REST API endpoints, using Hibernate, working with Junit 5 etc. Once you have secured and tested the backend, we will go ahead and start working on the front end with Angular. You will learn about fundamentals of Angular and Typescript and create an SPA using components, routing etc. Finally, you will see how to integrate both the applications with REST protocol and deploy the application using tools such as Jenkins and Docker. Style and approach This is a straightforward guide that shows how to build a complete web application in Angular and Spring.

Designing Hexagonal Architecture with Java Aug 11 2021 A practical guide for software architects and Java developers to build cloud-native hexagonal applications using Java and Quarkus to create systems that are easier to refactor, scale, and maintain Key FeaturesLearn techniques to decouple business and technology code in an applicationApply hexagonal architecture principles to produce more organized, coherent, and maintainable softwareMinimize technical debts and tackle complexities derived from multiple teams dealing with the same code baseBook Description Hexagonal architecture enhances developers' productivity by decoupling business code from technology code, making the software more change-tolerant, and allowing it to evolve and incorporate new technologies without the need for significant refactoring. By adhering to hexagonal principles, you can structure your software in a way that reduces the effort required to understand and maintain the code. This book starts with an in-depth analysis of hexagonal architecture's building blocks, such as entities, use cases, ports, and adapters. You'll learn how to assemble business code in the Domain hexagon, create features by using ports and use cases in the Application hexagon, and make your software compatible with different technologies by employing adapters in the Framework hexagon. Moving on, you'll get your hands dirty developing a system based on a real-world scenario applying all the hexagonal architecture's building blocks. By creating a hexagonal system, you'll also understand how you can use Java modules to reinforce dependency inversion and ensure the isolation of each hexagon in the architecture. Finally, you'll get to grips with using

Quarkus to turn your hexagonal application into a cloud-native system. By the end of this hexagonal architecture book, you'll be able to bring order and sanity to the development of complex and long-lasting applications. What you will learnFind out how to assemble business rules algorithms using the specification design patternCombine domain-driven design techniques with hexagonal principles to create powerful domain modelsEmploy adapters to make the system support different protocols such as REST, gRPC, and WebSocketCreate a module and package structure based on hexagonal principlesUse Java modules to enforce dependency inversion and ensure isolation between software componentsImplement Quarkus DI to manage the life cycle of input and output portsWho this book is for This book is for software architects and Java developers who want to improve code maintainability and enhance productivity with an architecture that allows changes in technology without compromising business logic, which is precisely what hexagonal architecture does. Intermediate knowledge of the Java programming language and familiarity with Jakarta EE will help you to get the most out of this book.

Intel Threading Building Blocks Aug 19 2019 Book explains how to maximize the benefits of Intel's new dual-core and multi-core processors through a portable C++ library that works on Windows, Linux, Macintosh, and Unix systems.

Spatializing Justice: Building Blocks Jul 18 2019

Building Blocks Jan 04 2021 Building blocks are practical materials for playing, learning and working at kindergartens, schools, universities and companies. How did building blocks, which were primarily established as toys for children, come to be practical materials used in professional and educational settings? This study explores the historical implications of particular sets of building blocks in the interdisciplinary consolidation and transformation of techniques, materials, discourses and subjects. By mapping the genealogy of building blocks from Fröbel's »gifts« to their current systematization as interlocked blocks, this study proposes that building blocks should be understood not exclusively as concrete objects, but as the materiality of a combinatorial program, which delineates a modular system characterized by a code of composition, a context-neutrality and a semantic component.

Business Architecture Sep 24 2022 History has shown that having a competitive advantage is critical to the success and long-term viability of all organizations. However, creating and sustaining such an advantage is a challenge. Organizations must formulate a winning strategy, surpass competitors at implementing and executing it, and excel at adapting in response to internal and external events. Although organizations have applied numerous best practices to help them succeed in their strategic endeavors, they still face serious difficulties, which they can only surmount by adopting business architecture. The goal of this book is to describe what business architecture is; how it can help meet the challenge of formulating, implementing and executing an organization's strategy; and how to build and exploit a superior strategy management system that leverages business architecture.

Basics Urban Building Blocks Mar 18 2022 Our cities and neighborhoods are composed of urban building blocks and a knowledge of these elementary components is part of the basic equipment of city planning. It is absolutely essential for urban design that one understands their form and structure, their functional conditions, and the differentiation into private and public spheres, as well as the ways they are networked into their surroundings. Study of these city building blocks represents a first step toward understanding, and successfully developing the built structure of the city as a physical and social habitat. Themes are - the row, - the block, - the courtyard (the block in reverse), - the passageway, - the line, - the solitaire, - the group, - the "shed".

TOGAF® Version 9.1 A Pocket Guide Jul 30 2020 This is the official Open Group Pocket Guide for TOGAF Version 9.1 and is published in hard copy and electronic format by Van Haren Publishing on behalf of The Open Group. TOGAF®, an Open Group Standard, is a proven enterprise architecture

methodology and framework used by the world's leading organizations to improve business efficiency. It is the most prominent and reliable enterprise architecture standard, ensuring consistent standards, methods, and communication among enterprise architecture professionals. Enterprise architecture professionals fluent in TOGAF standards enjoy greater industry credibility, job effectiveness, and career opportunities. TOGAF helps practitioners avoid being locked into proprietary methods, utilize resources more efficiently and effectively, and realize a greater return on investment.

New Carbon Architecture Feb 23 2020 "Green buildings" that slash energy use and carbon emissions are all the rage, but they aren't enough. The hidden culprit is embodied carbon—the carbon emitted when materials are mined, manufactured, and transported—comprising some ten percent of global emissions. With the built environment doubling by 2030, buildings are a carbon juggernaut threatening to overwhelm the climate. It doesn't have to be this way. Like never before in history, buildings can become part of the climate solution. With biomimicry and innovation, we can pull huge amounts of carbon out of the atmosphere and lock it up as walls, roofs, foundations, and insulation. We can literally make buildings out of the sky with a massive positive impact. The New Carbon Architecture is a paradigm-shifting tour of the innovations in architecture and construction that are making this happen. Office towers built from advanced wood products; affordable, low-carbon concrete alternatives; plastic cleaned from the oceans and turned into building blocks. We can even grow insulation from mycelium. A tour de force by the leaders in the field, The New Carbon Architecture will fire the imagination of architects, engineers, builders, policy makers, and everyone else captivated by the possibility of architecture to heal the climate and produce safer, healthier, and more beautiful buildings. Bruce King, a structural engineer for thirty-five years, is Founder and Director of the Ecological Building Network (EBNet) and author of Buildings of Earth and Straw, Making Better Concrete, and Design of Straw Bale Buildings. He lives in San Rafael, California.

IT Infrastructure Architecture - Infrastructure Building Blocks and Concepts Third Edition Nov 02 2020

The Yale Art + Architecture Building Jun 21 2022 The fire of 1969 was followed by a series of unsympathetic renovations that eliminated much of the building's grandeur and destroyed its most majestic spaces, prompting Rudolph to disown it."--BOOK JACKET.

Messana O'Rorke May 28 2020 Drawing on examples of their own instantly recognizable Minimalist-inflected designs, often evoking the work of Donald Judd, celebrated architects Messana O'Rorke demonstrate how to create a serene haven for modern living. Founded in 1996 by Brian Messana and Toby O'Rorke in New York City, Messana O'Rorke is renowned for crafting spaces of sublime restraint and ethereal beauty. Their process utilizes a rigorously limited palette of materials orchestrated in an architectural language of distilled boxes, blocks, and containers that emphasize the qualities of space itself rather than the things that fill it. The apparent simplicity and serenity of Messana O'Rorke's designs belie the astonishing richness and variety of the experiences they nurture. The architects' projects span a wide spectrum of residential and commercial assignments in multiple geographies—city, country, mountain, desert, coastal. Yet even as they adapt their fundamental design vocabulary to address differences in program and context, Messana O'Rorke's signature remains unmistakable in the ways they carve space and light. Their designs simultaneously foster both contemplation and invigoration, repose and action. There is no straining for theatrical effect, no tortured architectural calisthenics, simply a search for order, clarity, and beauty.

ArchiMate® 3.0.1 Specification Mar 26 2020 The ArchiMate® Specification, an Open Group Standard, defines an open and independent modeling language for Enterprise Architecture that is supported by different tool vendors and consulting firms. The ArchiMate language enables Enterprise Architects to describe, analyze, and visualize the relationships among business domains in an unambiguous way. This book is the official specification of the ArchiMate 3.0.1 modeling language from The Open Group. ArchiMate 3.0.1 is a minor update to ArchiMate 3.0, containing the set of

corrections from ArchiMate 3.0 Technical Corrigendum No. 1 (U172). This addresses inconsistencies and errors identified since the publication of Version 3.0 in June 2016.The ArchiMate Specification supports modeling throughout the TOGAF® Architecture Development Method (ADM). New features in Version 3 include elements for modeling the enterprise at a strategic level, such as capability, resource, and outcome. It also includes support to model the physical world of materials and equipment. Furthermore, the consistency and structure of the language have been improved, definitions have been aligned with other standards, and its usability has been enhanced in various other ways.The intended audience is threefold: • Enterprise Architecture practitioners, such as architects (e.g., business, application, information, process, infrastructure, and, obviously, enterprise architects), senior and operational management, project leaders, and anyone committed to work within the reference framework defined by the Enterprise Architecture. • Those who intend to implement the ArchiMate language in a software tool; they will find a complete and detailed description of the language in this book. • The academic community, on which we rely for amending and improving the language, based on state-of-the-art research results in the Enterprise Architecture field.

Designed for Digital Mar 06 2021 Practical advice for redesigning "big, old" companies for digital success, with examples from Amazon, BNY Mellon, LEGO, Philips, USAA, and many other global organizations. Most established companies have deployed such digital technologies as the cloud, mobile apps, the internet of things, and artificial intelligence. But few established companies are designed for digital. This book offers an essential guide for retooling organizations for digital success. In the digital economy, rapid pace of change in technology capabilities and customer desires means that business strategy must be fluid. As a result, the authors explain, business design has become a critical management responsibility. Effective business design enables a company to quickly pivot in response to new competitive threats and opportunities. Most leaders today, however, rely on organizational structure to implement strategy, unaware that structure inhibits, rather than enables, agility. In companies that are designed for digital, people, processes, data, and technology are synchronized to identify and deliver innovative customer solutions—and redefine strategy. Digital design, not strategy, is what separates winners from losers in the digital economy. Designed for Digital offers practical advice on digital transformation, with examples that include Amazon, BNY Mellon, DBS Bank, LEGO, Philips, Schneider Electric, USAA, and many other global organizations. Drawing on five years of research and in-depth case studies, the book is an essential guide for companies that want to disrupt rather than be disrupted in the new digital landscape. Five Building Blocks of Digital Business Success Shared Customer Insights Operational Backbone Digital Platform Accountability Framework External Developer Platform

Material Strategies Dec 03 2020 Blaine Brownell s best-selling Transmaterial series has introduced designers to hundreds of emergent materials that have the potential to transform our built environment. In our new Architecture Brief, Material Strategies, Brownell shows architects how creative applications of these materials achieve such transformations. Chapters based on fundamental material categories examine historical precedents, current opportunities, and future environmental challenges. Case studies featuring detailed illustrations showcase pioneering buildings from today s most forward-thinking architectural firms.

The United Nations Apr 26 2020 Part of the Building Blocks Series presenting icons of modern architecture, this book presents the photographic work of Ezra Stoller concentrating on the Yale Art and Architecture Building. It features a historical record of the building, and documents the people, fashions, and furnishings of its time. In the preface, the author tells of his personal relationship with the architect of the project and recounts his experience photographing it. A brief introduction reveals the unique history of the building, with newly drawn plans.

It Infrastructure Architecture - Infrastructure Building Blocks and Concepts Second Edition Oct 25 2022 For many decades, IT infrastructure has provided the foundation for successful application deployment. Yet, general knowledge of infrastructures is still not widespread.

Experience shows that software developers, system administrators, and project managers often have little knowledge of the big influence IT infrastructures have on the performance, availability and security of software applications. This book explains the concepts, history, and implementation of IT infrastructures. Although many of books can be found on individual infrastructure building blocks, this is the first book to describe all of them: datacenters, servers, networks, storage, virtualization, operating systems, and end user devices. Whether you need an introduction to infrastructure technologies, a refresher course, or a study guide for a computer science class, you will find that the presented building blocks and concepts provide a solid foundation for understanding the complexity of today's IT infrastructures.

Building Evolutionary Architectures Jun 28 2020 The software development ecosystem is constantly changing, providing a constant stream of new tools, frameworks, techniques, and paradigms. Over the past few years, incremental developments in core engineering practices for software development have created the foundations for rethinking how architecture changes over time, along with ways to protect important architectural characteristics as it evolves. This practical guide ties those parts together with a new way to think about architecture and time.

Guide to Enterprise IT Architecture Jan 24 2020 An up-to-date and comprehensive overview of information and database systems design and implementation. The book provides an accessible presentation and explanation of technical architecture for systems complying with TOGAF standards, the accepted international framework. Covering nearly the full spectrum of architectural concern, the authors also illustrate and concretize the notion of traceability from business goals, strategy through to technical architecture, providing the reader with a holistic and commanding view. The work has two mutually supportive foci. First, information technology technical architecture, the in-depth, illustrative and contemporary treatment of which comprises the core and majority of the book; and secondly, a strategic and business context.

Software Architecture Knowledge Management Oct 01 2020 A software architecture manifests the major early design decisions, which determine the system's development, deployment and evolution. Thus, making better architectural decisions is one of the large challenges in software engineering. Software architecture knowledge management is about capturing practical experience and translating it into generalized architectural knowledge, and using this knowledge in the communication with stakeholders during all phases of the software lifecycle. This book presents a concise description of knowledge management in the software architecture discipline. It explains the importance of sound knowledge management practices for improving software architecture processes and products, and makes clear the role of knowledge management in software architecture and software development processes. It presents many approaches that are in use in software companies today, approaches that have been used in other domains, and approaches under development in academia. After an initial introduction by the editors, the contributions are grouped in three parts on "Architecture Knowledge Management", "Strategies and Approaches for Managing Architectural Knowledge", and "Tools and Techniques for Managing Architectural Knowledge". The presentation aims at information technology and software engineering professionals, in particular software architects and software architecture researchers. For the industrial audience, the book gives a broad and concise understanding of the importance of knowledge management for improving software architecture process and building capabilities in designing and evaluating better architectures for their mission- and business-critical systems. For researchers, the book will help to understand the applications of various knowledge management approaches in an industrial setting and to identify research challenges and opportunities.

The John Hancock Center Apr 19 2022 Ezra Stoller's photographs of postwar architecture have defined the way architects, historians, and the public at large see buildings. Taken just after the completion of the John Hancock Center, these photographs provide a unique historical record, documenting the fashions and furnishings of the period, and how people interact with the building. "Ezra Stoller is the Annie Leibovitz of modern architecture." -House & Garden

Enterprise Architecture Function Sep 19 2019 This book provides a method to plan, develop, validate, or evolve the design of an enterprise architecture function so that it fully meets the organization's needs. The reader will benefit from this book in two ways. First, it provides a structured overview and orientation to the subject of architecture from an architecture function perspective. Second, it guides through the process of planning, building, and operating your own architecture organization based on a generic architecture function blueprint presented in the form of a pattern language offering a structured means for navigating, contextualizing, combining, and composing the architecture function patterns. The book is structured in six chapters. Chapter 1 "Introduction" explains the starting position and objectives of the book and introduces key concepts that will be explained further in subsequent chapters. Chapter 2 "Architecture Function Pattern Language" introduces the concepts of pattern, pattern catalogue, pattern topology, and ontology and explains how these concepts are combined to form a pattern language for planning, designing, and operating an architecture function. Next, Chapter 3 "Architecture Function – Context" introduces concepts that are crucial for understanding the challenges that an architecture function faces and presents a generic schema for the business organizations and value chain. Chapter 4 "Architecture Function – Challenge" looks at an architecture function from a black box perspective and outlines the expectations and requirements that companies place on architecture organizations. It discusses the building blocks of an architecture function, the services it provides along the enterprise value chain, and the quality attributes that enterprises expect from their functions. Chapter 5 "Architecture Function – Constitution" then shifts from a black-box perspective to a white-box perspective and outlines the generic design of an architecture function in order to realize functional and quality-related requirements. Chapter 6 "Pattern Catalogue" eventually introduces the pattern catalogue with a total of 48 architecture function patterns. These patterns suggest designs for collaboration between the architecture function and enterprise organizations, for the elaboration and development of enterprise services along the enterprise value chain, or for aligning architecture governance with enterprise governance. The book is intended for a broad readership, including enterprise, domain, and solution architects, lecturers and students, and anyone else interested in understanding the value proposition, responsibilities, outcomes, methods, and practices of architecture functions. It introduces the basic concepts and theories needed to understand the pattern language presented and the patterns it summarizes.

Development of Organization-specific Enterprise Architecture Modeling Languages Using Building Blocks Nov 14 2021

Refactoring Databases Nov 21 2019 Refactoring has proven its value in a wide range of development projects–helping software professionals improve system designs, maintainability, extensibility, and performance. Now, for the first time, leading agile methodologist Scott Ambler and renowned consultant Pramodkumar Sadalage introduce powerful refactoring techniques specifically designed for database systems. Ambler and Sadalage demonstrate how small changes to table structures, data, stored procedures, and triggers can significantly enhance virtually any database design–without changing semantics. You'll learn how to evolve database schemas in step with source code–and become far more effective in projects relying on iterative, agile methodologies. This comprehensive guide and reference helps you overcome the practical obstacles to refactoring real-world databases by covering every fundamental concept underlying database refactoring. Using start-to-finish examples, the authors walk you through refactoring simple standalone database applications as well as sophisticated multi-application scenarios. You'll master every task involved in refactoring database schemas, and discover best practices for deploying refactorings in even the most complex production environments. The second half of this book systematically covers five major categories of database refactorings. You'll learn how to use refactoring to enhance database structure, data quality, and referential integrity; and how to refactor both architectures and methods. This book provides an extensive set of examples built with Oracle and Java and easily adaptable for other languages, such as C#, C++, or VB.NET, and other databases, such as DB2, SQL Server, MySQL, and Sybase. Using this book's techniques and examples, you can reduce waste, rework, risk, and cost–and build database systems

capable of evolving smoothly, far into the future.

Enterprise Business Architecture Dec 23 2019 A critical part of any company's successful strategic planning is the creation of an Enterprise Business Architecture (EBA) with its formal linkages. Strategic research and analysis firms have recognized the importance of an integrated enterprise architecture and they have frequently reported on its increasing value to successful companies. Enterpr

TOGAF® Version 9.1 Jan 16 2022 For trainers free additional material of this book is available. This can be found under the "Training Material" tab. Log in with your trainer account to access the material.TOGAF is a framework - a detailed method and a set of supporting tools - for developing an enterprise architecture, developed by members of The Open Group Architecture Forum.TOGAF Version 9.1 is a maintenance update to TOGAF 9, addressing comments raised since the introduction of TOGAF 9 in 2009. It retains the major features and structure of TOGAF 9, thereby preserving existing investment in TOGAF, and adds further detail and clarification to what is already proven.It may be used freely by any organization wishing to develop an enterprise architecture for use within that organization (subject to the Conditions of Use).This Book is divided into seven parts:Part I - Introduction This part provides a high-level introduction to the key concepts of enterprise architecture and in particular the TOGAF approach. It contains the definitions of terms used throughout TOGAF and release notes detailing the changes between this version and the previous version of TOGAF.Part II - Architecture Development Method This is the core of TOGAF. It describes the TOGAF Architecture Development Method (ADM) a step-by-step approach to developing an enterprise architecture.Part III - ADM Guidelines & Techniques This part contains a collection of guidelines and techniques available for use in applying TOGAF and the TOGAF ADM.Part IV - Architecture Content Framework This part describes the TOGAF content framework, including a structured metamodel for architectural artifacts, the use of re-usable architecture building blocks, and an overview of typical architecture deliverables.Part V - Enterprise Continuum & Tools This part discusses appropriate taxonomies and tools to categorize and store the outputs of architecture activity within an enterprise.Part VI - TOGAF Reference Models This part provides a selection of architectural reference models, which includes the TOGAF Foundation Architecture, and the Integrated Information Infrastructure Reference Model (III-RM).Part VII Architecture Capability FrameworkThis section looks at roles, Governance, compliance skills and much more practical guidance

Software Architecture 1 Oct 13 2021 Over the past 20 years, software architectures have significantly contributed to the development of complex and distributed systems. Nowadays, it is recognized that one of the critical problems in the design and development of any complex software system is its architecture, i.e. the organization of its architectural elements. Software Architecture presents the software architecture paradigms based on objects, components, services and models, as well as the various architectural techniques and methods, the analysis of architectural qualities, models of representation of architectural templates and styles, their formalization, validation and testing and finally the engineering approach in which these consistent and autonomous elements can be tackled.