

Architecting Enterprise Managing Innovation Technology And Global Competitiveness

Human + Machine Strategic Information Technology and Portfolio Management The Art of Scalability The Butterfly Effect in Competitive Markets Performance and Capacity Themes for Cloud Computing Enterprise Architecture Selected Readings on Information Technology and Business Systems Management Architecting the Digital Transformation Business Architecture Management FEAC Certified Enterprise Architect CEA Study Guide Architecting High Performing, Scalable and Available Enterprise Web Applications The People Problem Sustainable Businesses in Developing Economies Competitive Branding Strategies Enterprise Architecture for Connected E-Government: Practices and Innovations A Systemic Perspective to Managing Complexity with Enterprise Architecture Strategic Enterprise Architecture Management Designed for Digital Handbook of Enterprise Systems Architecture in Practice Continuous Architecture Cloud Computing Patterns of Expertise Building Digital Ecosystem Architectures Enterprise Master Data Management The Software Architect Elevator Complex Systems Concurrent Engineering California Management Review Competing in the Information Age Architecting Enterprise Blockchain Solutions Mastering Disruption and Innovation in Product Management Enterprise API Management Handbook of Research on Modern Systems Analysis and Design Technologies and Applications Managing Technical Debt Certified Enterprise Architect All-in-One Exam Guide Enterprise Architecture for Global Companies in a Digital IT Era recrEAtion International Journal of Manufacturing Technology and Management Wall Street & Technology Architecting Enterprise Achieving and Sustaining Secured Business Operations The Practice of Enterprise Architecture

Human + Machine

"This book addresses the gap in current literature in terms of linking and understanding the relationship between e-government and government enterprise architecture"--Provided by publisher.

Strategic Information Technology and Portfolio Management

The Art of Scalability

This book is positioned as a first in a series of books on enterprise architecture needed for a Master of Enterprise Architecture program, and is targeted both at university students and practitioners with a drive to increase their understanding of these fields. As an introductory book, this book aims to explore the concept of enterprise architecture. At first glance, writing such an introductory book might seem as a straight forward task of setting up a structure and filling in "the blanks." However, writing this book turned out to be a pleasant journey of discovery. Based on our past experiences, each of us had a clear understanding of enterprise architecture, based on several years of experience and insight in the field. However, when we started writing this book, and each of us exposed our individual understandings, it became apparent that our understanding of the field differed in

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several ways. This prompted several discussions leading to an abundance of new insights. Without exception, these discussions took place in a pleasant and open atmosphere, fueled by your shared drive for understanding and increased insight. We are now even more convinced than before, that the old enterprise architecture is a true multi-disciplinary profession. In the resulting book, we would like to share our insights, while also hoping to continue our discussions, now also involving you as a reader. We also realise that the journey is still far from complete. While this introductory book provides an overview of the old of enterprise architecture from the perspective of our insights, many aspects need further refinement.

The Butterfly Effect in Competitive Markets

This book provides an introduction to the concept of entrepreneurship and entrepreneurial business management. It covers many elements of the entrepreneurial management discipline including choosing a business, organizing, financing, marketing, developing an offering that the market will value, and growing the business in all its dimensions.

Performance and Capacity Themes for Cloud Computing

"The objectives of the proposed book are to provide techniques and tools appropriate for building application portfolios and develop strategies that increase financial performance"--Provided by publisher.

Enterprise Architecture

Join Simon on a quest to uncover the value of Enterprise Architecture (and it's not what you think it is!) Simon is a seasoned Enterprise Architect who joins a corporation in New York as their first-ever Vice President of Enterprise Architecture. On his very first day, he meets the global Chief Executive Officer (CEO) who asks Simon 'What do you do?' Simon's reply triggers the CEO to respond in a way that our hero least expects. What follows is a journey across continents and oceans in which Simon uncovers the true meaning of Enterprise Architecture, who is doing it, and how successful they are. On his travels, Simon teams up with senior executives around the world to integrate Enterprise Architecture into their strategies and business plans, and to innovate in the architecture of their enterprise. Everyone he meets has some wisdom to offer, and is looking for his in return. Finally, Simon has to make a choice between the kind of Enterprise Architect he used to be and the one he has become. Join the characters in this sequel to the highly-acclaimed business novel *frulTion*, as they contribute to Simon's journey and he makes his final choice. Share in his thoughts and experiences, and join the author in observing key messages along the journey. Potts weaves another story of drama and intrigue which is a must read for any CEO or Enterprise Architect looking to design a business to achieve sustainable performance. As Enterprise Architects continue to discover their relevance and value-add, Potts lives up to his reputation by interrupting with a dose of common sense and challenging insights which will make business leaders pause and reflect. Chris Parker Senior Vice President and CIO, LeasePlan Corporation Just as the CIO

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has gained new responsibilities for more closely extracting business value from IT investments, the Enterprise Architect has acquired new and more strategic responsibilities for designing architectures which must also add value to the business. Chris Potts has once again laid out a needed roadmap for another critical IT function as it transitions from purely infrastructure design to a strategic executive partnership, advising the top management team on the shape and evolution of the architecture for the enterprise. It is his advice that comes none too soon as budgets are constantly decreasing, and we face increasing pressure from the creative destructive power of technological evolution. And Chris does it in his inimical story-telling approach that makes the comprehension of the concepts so accessible and fun. You feel like you are reading a thriller soon to be made into a movie. The book should be required reading for the CEO and all members of the executive team. Bravo, Chris! Dr. Andres Fortino Associate Provost for Corporate Graduate Programs Industry Professor of Technology Management Polytechnic Institute of New York University RecrEAtion, Potts' much-anticipated follow-up to fruTion, is second to none. Through a brilliant story as told by Simon the enterprise architect, Potts conveys the important message that an enterprise needs an enterprising and architecting culture to be successful as a coherent business. Architects in all sectors should read this book. Dr. John Gotze Chief Editor, Journal of Enterprise Architecture, Partner, EA Fellows, and Founder, International Enterprise Architecture Institute

Selected Readings on Information Technology and Business Systems Management

Architecting the Digital Transformation

Globalization has expanded the options for building brand strategies through social media, the internet, and in conventional approaches. Amidst increasing market competition, companies need to analyze their competitive choices to determine their brand equity in the marketplace. As such, it is necessary for companies to develop customer-focused brands to gain competitive advantage. This book enhances knowledge on developing competitive brands in emerging markets, particularly the BRICS countries. It provides the necessary guidance with proven strategies for building successful brands, the decisions and options faced by brand managers, and the tools to manage brands effectively. It develops new dimensions on brand management strategies by analyzing best practices based on proven strategies. Readers will not only gain insight into international brand competition, but also into the organizational support necessary to build and manage a powerful brand. It is a necessary read for all MBA students and scholars in marketing, especially those who seek to gain new insight in the rapidly changing global marketplace.

Business Architecture Management

This volume features the proceedings of the 14th ISPE Conference on Concurrent Engineering, held in São José dos Campos, São Paulo, Brazil, on the 16th – 20th of July 2007. It highlights the application of concurrent engineering to the

development of complex systems.

FEAC Certified Enterprise Architect CEA Study Guide

As the digital economy changes the rules of the game for enterprises, the role of software and IT architects is also transforming. Rather than focus on technical decisions alone, architects and senior technologists need to combine organizational and technical knowledge to effect change in their company's structure and processes. To accomplish that, they need to connect the IT engine room to the penthouse, where the business strategy is defined. In this guide, author Gregor Hohpe shares real-world advice and hard-learned lessons from actual IT transformations. His anecdotes help architects, senior developers, and other IT professionals prepare for a more complex but rewarding role in the enterprise. This book is ideal for: Software architects and senior developers looking to shape the company's technology direction or assist in an organizational transformation Enterprise architects and senior technologists searching for practical advice on how to navigate technical and organizational topics CTOs and senior technical architects who are devising an IT strategy that impacts the way the organization works IT managers who want to learn what's worked and what hasn't in large-scale transformation

Architecting High Performing, Scalable and Available Enterprise Web Applications

The design of digital solutions has become a pressing concern for practitioners faced with a plethora of technology impacting their business. From cloud computing to social networks, mobile computing and big data, to the emerging of Internet of things, all of which are changing how enterprise products, services, rooms and buildings are connected to the wider ecosystem of networks and services. This book defines digital ecosystems with examples from real industry cases and explores how enterprise architecture is evolving to enable physical and virtual, social, and material object collaboration and experience. The key topics covered include: Concepts of digitization Types of technological ecosystems Architecting digital workspaces Principles of architecture design Examples architecting digital business models Examples of digital design patterns Methods of monetization Conclusions

The People Problem

The Only Complete Technical Primer for MDM Planners, Architects, and Implementers Companies moving toward flexible SOA architectures often face difficult information management and integration challenges. The master data they rely on is often stored and managed in ways that are redundant, inconsistent, inaccessible, non-standardized, and poorly governed. Using Master Data Management (MDM), organizations can regain control of their master data, improve corresponding business processes, and maximize its value in SOA environments. Enterprise Master Data Management provides an authoritative, vendor-independent MDM technical reference for practitioners: architects, technical analysts, consultants, solution designers, and senior IT decisionmakers.

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Written by the IBM® data management innovators who are pioneering MDM, this book systematically introduces MDM's key concepts and technical themes, explains its business case, and illuminates how it interrelates with and enables SOA. Drawing on their experience with cutting-edge projects, the authors introduce MDM patterns, blueprints, solutions, and best practices published nowhere else—everything you need to establish a consistent, manageable set of master data, and use it for competitive advantage. Coverage includes How MDM and SOA complement each other Using the MDM Reference Architecture to position and design MDM solutions within an enterprise Assessing the value and risks to master data and applying the right security controls Using PIM-MDM and CDI-MDM Solution Blueprints to address industry-specific information management challenges Explaining MDM patterns as enablers to accelerate consistent MDM deployments Incorporating MDM solutions into existing IT landscapes via MDM Integration Blueprints Leveraging master data as an enterprise asset—bringing people, processes, and technology together with MDM and data governance Best practices in MDM deployment, including data warehouse and SAP integration

Sustainable Businesses in Developing Economies

Demystify architecting complex blockchain applications in enterprise environments Architecting Enterprise Blockchain Solutions helps engineers and IT administrators understand how to architect complex blockchain applications in enterprise environments. The book takes a deep dive into the intricacies of supporting and securing blockchain technology, creating and implementing decentralized applications, and incorporating blockchain into an existing enterprise IT infrastructure. Blockchain is a technology that is experiencing massive growth in many facets of business and the enterprise. Most books around blockchain primarily deal with how blockchains are related to cryptocurrency or focus on pure blockchain development. This book teaches what blockchain technology is and offers insights into its current and future uses in high performance networks and complex ecosystems. • Provides a practical, hands-on approach • Demonstrates the power and flexibility of enterprise blockchains such as Hyperledger and R3 Corda • Explores how blockchain can be used to solve complex IT support and infrastructure problems • Offers numerous hands-on examples and diagrams Get ready to learn how to harness the power and flexibility of enterprise blockchains!

Competitive Branding Strategies

Proactively plan and manage innovation in your business while keeping operations safe and secure. This book provides a framework and practices to help you safeguard customer information, prevent unauthorized access, and protect your brand and assets. Securing company operations is a board-level discussion. Across all industries, companies are pouring millions of dollars into taming cybercrime and other related security crime. Achieving and Sustaining Secured Business Operations presents a holistic approach looking top down, bottom up, and sideways. The end goal is to achieve and sustain a safe environment to conduct secured business operations while continuously innovating for competitive advantage. What You'll Learn Discover why security, specifically secured business operations, needs to be part of business planning and oversight by design and not left to technologists to make the business case Determine what you can do in your

role and in your organization to drive and implement integration and improvements in planning and managing secured business operations in conjunction with other business planning and management activities Choose ways in which progress toward achieving and sustaining secured business operations can be measured Understand best practices for organizing, planning, architecting, governing, monitoring, and managing secured business operations Create a framework, including methods and tools for operationalizing assessment, planning, and ongoing management of secured business operations Use cases and potential case studies for various industries and business models Who This Book Is For Chief executive officers and their leadership team; chief operations officers; chief information officers and their leadership team; chief information security officers; business functional middle managers; and enterprise, solution, and information technology architects

Enterprise Architecture for Connected E-Government: Practices and Innovations

Your business is solving the wrong problems. The nuclear triad of People, Process and Technology has been foundational to solving business problems for decades. Entire frameworks and methodologies have grown up around the simple concept that getting each of these three areas correct and functioning in concert will ensure smooth business operations and cross-enterprise alignment. Billions of dollars have been spent on people in the management consulting industry who have "mastered" the art of alignment and offered definitive solutions to the biggest, wickedest business challenges out there. And yet our businesses continue to encounter the same well-known and seemingly well-solved problems, spending massive sums to fix them. How can this be? It is said that modern business is one part innovation and one part marketing. Innovation is often mistakenly equated with technology and marketing with 'digital'. Success in business therefore becomes a chase for digital capabilities and the latest technology to enable them. And yet the latest technology continues to give us problems, create headaches and doesn't always give our businesses the edge they need to compete, despite costing us huge amounts of money. How can this be? The reality, of course, is that businesses are chasing the wrong buzzwords, buying the wrong solutions, solving the wrong problems. The People Problem tackles this topic from the perspective of Enterprise Architecture. For newcomers and open-minded old-timers who practice EA, architecting the enterprise is all about asking the fundamental question 'what business problem are we trying to solve?' When practitioners pay close attention, they'll recognize that business problems are infrequently solved by a new tool. That is, Technology isn't the answer to the problem. They'll also notice that the most efficient process in the world, made popular by the flashiest buzzwords in the industry, is insufficient to answer the fundamental question. In other words, Process is not the answer to the problem. Human beings are at the root and core of our businesses. They define the processes and operate the technology. Only by recognizing that solving business problems requires solving problems with (and caused by) people will we get close to the right solutions. The People Problem aims to help new entrants to the field of enterprise architecture (and anyone interested in solving difficult business problems) navigate in an era of particularly rapid business and technological change. Based on over 17 years of experience consulting with companies large and small, Fortune 500 to local startups, The

People Problem is a collection of accumulated knowledge presented in easily digestible vignettes. Discover The People Problem in your enterprise today and get a halfway decent start at addressing the critical issues facing your business.

A Systemic Perspective to Managing Complexity with Enterprise Architecture

Strategic Enterprise Architecture Management

“This is an incredibly wise and useful book. The authors have considerable real-world experience in delivering quality systems that matter, and their expertise shines through in these pages. Here you will learn what technical debt is, what is it not, how to manage it, and how to pay it down in responsible ways. This is a book I wish I had when I was just beginning my career. The authors present a myriad of case studies, born from years of experience, and offer a multitude of actionable insights for how to apply it to your project.” –Grady Booch, IBM Fellow Master Best Practices for Managing Technical Debt to Promote Software Quality and Productivity

As software systems mature, earlier design or code decisions made in the context of budget or schedule constraints increasingly impede evolution and innovation. This phenomenon is called technical debt, and practical solutions exist. In *Managing Technical Debt*, three leading experts introduce integrated, empirically developed principles and practices that any software professional can use to gain control of technical debt in any software system. Using real-life examples, the authors explain the forms of technical debt that afflict software-intensive systems, their root causes, and their impacts. They introduce proven approaches for identifying and assessing specific sources of technical debt, limiting new debt, and “paying off” debt over time. They describe how to establish managing technical debt as a core software engineering practice in your organization. Discover how technical debt damages manageability, quality, productivity, and morale—and what you can do about it. Clarify root causes of debt, including the linked roles of business goals, source code, architecture, testing, and infrastructure. Identify technical debt items, and analyze their costs so you can prioritize action. Choose the right solution for each technical debt item: eliminate, reduce, or mitigate. Integrate software engineering practices that minimize new debt. *Managing Technical Debt* will be a valuable resource for every software professional who wants to accelerate innovation in existing systems, or build new systems that will be easier to maintain and evolve.

Designed for Digital

Continuous Architecture provides a broad architectural perspective for continuous delivery, and describes a new architectural approach that supports and enables it. As the pace of innovation and software releases increases, IT departments are tasked to deliver value quickly and inexpensively to their business partners. With a focus on getting software into end-users hands faster, the ultimate goal of daily software updates is in sight to allow teams to ensure that they can release every change to the system simply and efficiently. This book presents an architectural approach to support modern application delivery methods and provide a broader

architectural perspective, taking architectural concerns into account when deploying agile or continuous delivery approaches. The authors explain how to solve the challenges of implementing continuous delivery at the project and enterprise level, and the impact on IT processes including application testing, software deployment and software architecture. Covering the application of enterprise and software architecture concepts to the Agile and Continuous Delivery models Explains how to create an architecture that can evolve with applications Incorporates techniques including refactoring, architectural analysis, testing, and feedback-driven development Provides insight into incorporating modern software development when structuring teams and organizations

Handbook of Enterprise Systems Architecture in Practice

This book is an essential guide or foundational toolkit for anyone who is involved in the process of developing, offering or selling any type of product or service. Based on how to surf on the waves of innovation and the principle of “form follows function” (System Architecture), it introduces and connects concepts like Market Understanding, Design Thinking, Design to Value, Modularization and Agility. It introduces readers to the essence of these main frameworks and provides a toolkit that explains both theoretically and practically when and how to utilize which one. The methods and processes described in this book have all been successfully tested in many industries. They apply in today’s market context of high uncertainty, complexity and turbulence, where innovation and disruption are essential. Readers will find answers to two fundamental questions: How can we implement an innovation process and environment that are conducive to successful product design? And, if our products fail to appeal to customers, how can we achieve a major turn-around with regard to product development? A wealth of examples and case studies help readers to benefit from the authors’ broad professional experience. Further, lessons learned and conceptual summaries provide valuable shortcuts to the methods and tools discussed. For today’s CEOs, enabling innovation is one of THE most complex leadership tasks. But innovation is not about theory and nice buzzwords. It’s about succeeding in the real world. This ‘hands-on’ book connects the dots and introduces the reader to some of the most relevant ideas and pragmatic concepts fitting today’s business reality. Dr. Robert Neuhauser, Executive VP and Global Head People and Leadership Development, Siemens At the most fundamental level this book brings order to chaos. It sets different and highly relevant design approaches into a complementary picture, rather than presenting them as competing ways of solving the same problem. Product designers, managers, consultants, scholars and students will surely have this valuable book within reach on a daily basis. Olivier L. de Weck, Ph.D – MIT Professor of Aeronautics and Astronautics and Engineering Systems, Editor-in-Chief Systems Engineering

Continuous Architecture

This IBM® Redpaper™ is the second in a series that addresses the performance and capacity considerations of the evolving cloud computing model. The first Redpaper publication (Performance Implications of Cloud Computing, REDP-4875) introduced cloud computing with its various deployment models, support roles, and offerings along with IT performance and capacity implications associated with

these deployment models and offerings. In this redpaper, we discuss lessons learned in the two years since the first paper was written. We offer practical guidance about how to select workloads that work best with cloud computing, and about how to address areas, such as performance testing, monitoring, service level agreements, and capacity planning considerations for both single and multi-tenancy environments. We also provide an example of a recent project where cloud computing solved current business needs (such as cost reduction, optimization of infrastructure utilization, and more efficient systems management and reporting capabilities) and how the solution addressed performance and capacity challenges. We conclude with a summary of the lessons learned and a perspective about how cloud computing can affect performance and capacity in the future.

Cloud Computing Patterns of Expertise

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

Building Digital Ecosystem Architectures

"This book provides a compendium of terms, definitions, and explanations of concepts in various areas of systems and design, as well as a vast collection of cutting-edge research articles from the field's leading experts"--Provided by publisher.

Enterprise Master Data Management

Trends in cleaner business decisions have resulted in sustainable business models

involving society, stakeholders, and consumers. Sustainable choices of companies create competitive differentiations that enable consumers to weigh social values and shift loyalties in the competitive marketplace. This book focuses on sustainability as the pivot of marketing and argues that commitment to sustainability in business not only equips companies to have greater social impact but also inspires an emotional response in consumers that aids companies in growing their image, brands, and socio-political reputations. Exploring topics such as the circular economy, sustainable logistics, eco-innovation, conscious consumption, and social entrepreneurship, the chapters discuss sustainable practices in emerging markets and co-creation between corporations and consumers. This book offers researchers innovative concepts on sustainable business modelling.

The Software Architect Elevator

"This book presents quality articles focused on key issues concerning technology in business"--Provided by publisher.

Complex Systems Concurrent Engineering

This IBM® Redpaper™ publication explains the business and technical value of emerging patterns of expertise in cloud computing, with specific applicability to IBM PureApplication™ System, IBM Workload Deployer, IBM SmartCloud® Orchestrator, and IBM SmartCloud Application Services. It explains how patterns help companies use the different cloud environments that IBM offers. Also included are some preferred practices for helping to ensure pattern portability. The pattern-based approach is a response to the need to reduce complexity in IT environments, where various skills are required to design, test, configure, and maintain integrated solutions, including clouds. IT managers spend most of their time maintaining applications and application environments, leaving little time to focus on new business needs or to adopt new technologies. As a result, businesses can lack the agility that is needed to be successful in fast-paced, competitive markets. Pattern of expertise are designed to deliver the following benefits: Faster time-to-value
Reduced costs and resource demands
Fewer errors and, therefore, lower risk
Patterns make full use of the unique nature of clouds, both private or public. When they are used in the cloud, patterns allow for the dynamic and efficient use of IT resources to achieve consistent results, even when complex solutions are built. In this way, patterns help save time, money, and resources. This Redpaper aims to show the value that patterns bring to IT managers and the business as a whole.

California Management Review

Architecting High Performing, Scalable and Available Enterprise Web Applications provides in-depth insights into techniques for achieving desired scalability, availability and performance quality goals for enterprise web applications. The book provides an integrated 360-degree view of achieving and maintaining these attributes through practical, proven patterns, novel models, best practices, performance strategies, and continuous improvement methodologies and case studies. The author shares his years of experience in application security,

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enterprise application testing, caching techniques, production operations and maintenance, and efficient project management techniques. Delivers holistic view of scalability, availability and security, caching, testing and project management Includes patterns and frameworks that are illustrated with end-to-end case studies Offers tips and troubleshooting methods for enterprise application testing, security, caching, production operations and project management Exploration of synergies between techniques and methodologies to achieve end-to-end availability, scalability, performance and security quality attributes 360-degree viewpoint approach for achieving overall quality Practitioner viewpoint on proven patterns, techniques, methodologies, models and best practices. Bulleted summary and tabular representation of concepts for effective understanding Production operations and troubleshooting tips

Competing in the Information Age

This book presents a comprehensive overview of enterprise architecture management with a specific focus on the business aspects. While recent approaches to enterprise architecture management have dealt mainly with aspects of information technology, this book covers all areas of business architecture from business motivation and models to business execution. The book provides examples of how architectural thinking can be applied in these areas, thus combining different perspectives into a consistent whole. In-depth experiences from end-user organizations help readers to understand the abstract concepts of business architecture management and to form blueprints for their own professional approach. Business architecture professionals, researchers, and others working in the field of strategic business management will benefit from this comprehensive volume and its hands-on examples of successful business architecture management practices.

Architecting Enterprise Blockchain Solutions

The discussion in this book provides an introduction to the concept of entrepreneurship and entrepreneurial business management. The author covers many elements of the entrepreneurial management discipline including choosing a business, organizing, financing, marketing, developing an offering that the market will value, and growing a business.

Mastering Disruption and Innovation in Product Management

Organizational complexity is an unavoidable aspect of all businesses, even larger ones, which can hinder their ability to react to sudden or disruptive change. However, with the implementation of enterprise architecture (EA), businesses are able to provide their leaders with the resources needed to address any arising challenges. A Systemic Perspective to Managing Complexity with Enterprise Architecture highlights the current advances in utilizing enterprise architecture for managing organizational complexity. By demonstrating the value and usefulness of EA, this book serves as a reference for business leaders, managers, engineers, enterprise architects, and many others interested in new research and approaches to business complexity.

Enterprise API Management

Based on an extensive study of the actual industry best practices, this book provides a systematic, end-to-end description of various aspects of an EA practice integrated into a consistent logical picture. This book offers research-based, conceptually sound and practically actionable answers to the key questions related to enterprise architecture.

Handbook of Research on Modern Systems Analysis and Design Technologies and Applications

This book investigates solutions incorporated by architecture boards in global enterprises to resolve issues and mitigate related architecture risks, while also proposing and implementing an adaptive integrated digital architecture framework (AIDAF) and related models and approaches/platforms, which can be applied in companies to promote IT strategies using cloud/mobile IT/digital IT. The book is divided into three main parts, the first of which (Chapters 1-2) addresses the background and motivation for AIDAF aligned with digital IT strategies. The second part (Chapter 3) provides an overview of strategic enterprise architecture (EA) frameworks for digital IT, elaborates on the essential elements of EA frameworks in the digital IT era, and advocates using AIDAF, models for architecture assessment/risk management, knowledge management on digital platforms. In turn, the third part (Chapters 4-7) demonstrates the application and benefits of AIDAF and related models, as shown in three case studies. "I found this book to be a very nice contribution to the EA community of practice. I can recommend this book as a textbook for digital IT strategists/practitioners, EA practitioners, students in universities and graduate schools." (From the Foreword by Scott A. Bernard) "In this new age of the digital information society, it is necessary to advocate a new EA framework. This book provides state-of-the art knowledge and practices about EA frameworks beneficial for IT practitioners, IT strategists, CIO, IT architects, and even students. It serves as an introductory textbook for all who drive the information society in this era."(From the Foreword by Jun Murai)

Managing Technical Debt

The Enterprise Architecture Management (EAM) discipline deals with the alignment of business and information systems architectures. While EAM has long been regarded as a discipline for IT managers, this book takes a different stance: It explains how top executives can use EAM to leverage their strategic planning and controlling processes, as well as how it can contribute to their sustainable competitive advantage. Based on the analysis of best practices from eight leading European companies from various industries, the book presents the crucial elements of successful EAM. It outlines what executives need to do in terms of governance, processes, methodologies, and culture in order to bring their management to the next level. Beyond this, the book points out how EAM could develop in the next decade, thus allowing today's managers to prepare for the future architecture management.

Certified Enterprise Architect All-in-One Exam Guide

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A strategy and implementation guide for building, deploying, and managing APIs
Key Features Comprehensive, end-to-end guide to business-driven enterprise APIs
Distills years of experience with API and microservice strategies Provides detailed guidance on implementing API-led architectures in any business Book Description
APIs are the cornerstone of modern, agile enterprise systems. They enable access to enterprise services from a wide variety of devices, act as a platform for innovation, and open completely new revenue streams. Enterprise API Management shows how to define the right architecture, implement the right patterns, and define the right organization model for business-driven APIs. Drawing on his experience of developing API and microservice strategies for some of the world's largest companies, Luis Weir explains how APIs deliver value across an enterprise. The book explores the architectural decisions, implementation patterns, and management practices for successful enterprise APIs, as well as providing clear, actionable advice on choosing and executing the right API strategy in your enterprise. With a relentless focus on creating business value, Luis Weir reveals an effective method for planning, building, and running business products and services with APIs. What you will learn Create API strategies to deliver business value Monetize APIs, promoting them through public marketplaces and directories Develop API-led architectures, applying best practice architecture patterns Choose between REST, GraphQL, and gRPC-style API architectures Manage APIs and microservices through the complete life cycle Deploy APIs and business products, as well as Target Operating Models Lead product-based organizations to embrace DevOps and focus on delivering business capabilities Who this book is for Architects, developers, and technology executives who want to deliver successful API strategies that bring business value.

Enterprise Architecture for Global Companies in a Digital IT Era

Competing in the Information Age: Align in the Sand 2ed synthesises for practicing managers the compelling, recent work in this area, with themes that focus on the continuous transformation in business, the adoption of information intensive management practices, the improvement of information processing, and the alignment of business strategy and information technology strategy. Rapid advancements in technology, dynamic markets, and the changing business environment have created increased demand for professionals who can manage and deliver information systems. This book shows IT professionals how to help their organisations achieve success through alignment and deployment of business and IT strategies.

recreAtion

"This book is a valuable addition to the reading list of executives, managers, and staff in business, government, and other sectors who seek to keep their enterprises agile and efficient as they manage change, implement new business processes and supporting technologies, and pursue important strategic goals"--Provided by publisher.

International Journal of Manufacturing Technology and Management

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This effective study guide offers comprehensive coverage of topics comprising the enterprise architecture body of knowledge. The book provides detailed coverage and lays out actionable methodologies and best practices to create and maintain successful EA models, artifacts and building blocks. It helps prepare readers to take any of the various EA certification exams and academic courses in enterprise architecture. This highly effective self-study guide offers comprehensive coverage of all topics in the enterprise architecture body of knowledge. Written by a team of experienced academics, practitioners, and professionals, the book takes a holistic look at the practice of enterprise architecture. You will get actionable methodologies and best practices and learn how to develop, deploy, and maintain successful enterprise architecture models, artifacts, and building blocks. Designed to help you prepare for certification, the Certified Enterprise Architect All-in-One Exam Guide also serves as an essential on-the-job reference. Coverage includes:

- Enterprise architecture foundation concepts
- Planning the enterprise architecture
- Enterprise architecture development, governance, and maintenance
- Defense frameworks
- Viewpoints and views
- The Zachman Framework
- The Open Group Architecture Framework (TOGAF)
- The Common Approach to Federal Enterprise Architecture
- FEAF2
- Comparison of frameworks
- Case Study integrated throughout the text
- And much more

Wall Street & Technology

The Comprehensive, Proven Approach to IT Scalability—Updated with New Strategies, Technologies, and Case Studies In The Art of Scalability, Second Edition, leading scalability consultants Martin L. Abbott and Michael T. Fisher cover everything you need to know to smoothly scale products and services for any requirement. This extensively revised edition reflects new technologies, strategies, and lessons, as well as new case studies from the authors' pioneering consulting practice, AKF Partners. Writing for technical and nontechnical decision-makers, Abbott and Fisher cover everything that impacts scalability, including architecture, process, people, organization, and technology. Their insights and recommendations reflect more than thirty years of experience at companies ranging from eBay to Visa, and Salesforce.com to Apple. You'll find updated strategies for structuring organizations to maximize agility and scalability, as well as new insights into the cloud (IaaS/PaaS) transition, NoSQL, DevOps, business metrics, and more. Using this guide's tools and advice, you can systematically clear away obstacles to scalability—and achieve unprecedented IT and business performance. Coverage includes

- Why scalability problems start with organizations and people, not technology, and what to do about it
- Actionable lessons from real successes and failures
- Staffing, structuring, and leading the agile, scalable organization
- Scaling processes for hyper-growth environments
- Architecting scalability: proprietary models for clarifying needs and making choices—including 15 key success principles
- Emerging technologies and challenges: data cost, datacenter planning, cloud evolution, and customer-aligned monitoring
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companies are using the new rules of AI to leap ahead on innovation and profitability, as well as what you can do to achieve similar results. It describes six entirely new types of hybrid human + machine roles that every company must develop, and it includes a "leader's guide" with the five crucial principles required to become an AI-fueled business. Human + Machine provides the missing and much-needed management playbook for success in our new age of AI. BOOK PROCEEDS FOR THE AI GENERATION The authors' goal in publishing Human + Machine is to help executives, workers, students and others navigate the changes that AI is making to business and the economy. They believe AI will bring innovations that truly improve the way the world works and lives. However, AI will cause disruption, and many people will need education, training and support to prepare for the newly created jobs. To support this need, the authors are donating the royalties received from the sale of this book to fund education and retraining programs focused on developing fusion skills for the age of artificial intelligence.

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