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Guide to Enterprise IT Architecture Essential Guide to Computer Architecture for Beginners and Novices Guide to Cloud Computing Object Management Architecture Guide Software Architecture Guide to Web Application and Platform Architectures Guide to Reliable Distributed Systems Web Services, Service-Oriented Architectures, and Cloud Computing NET Application Architecture Guide The SIM Guide to Enterprise Architecture Programming Guide for Wearable Computing Alpha Implementations and Architecture Software Architecture Fundamentals A Practical Guide to Enterprise Architecture New Guide To Computer Architecture Handbook For Beginners And Dummies Enterprise System Architectures Large-Scale Software Architecture From Architectures to Operating Systems NetCentric and Client/Server Computing Embedded Systems Architecture Service Oriented Architecture Field Guide for Executives Clean Architecture Realize Enterprise Architecture with AWS and SAFe Enterprise Architecture SAA Service-oriented Architecture A Practical Guide to Information Architecture Complete Digital Design: A Comprehensive Guide to Digital Electronics and Computer System Architecture Parallel Computing Architectures and APIs Enterprise System Architectures Service-Oriented Architecture Cloud Security Guide to RISC Processors Cloud Computing Building Digital Ecosystem Architectures Azure Architecture Explained Grid Computing Clean Architecture The Official Client/server Computing Guide to Data Warehousing Learning Computer Architecture with Raspberry Pi

Guide to Enterprise IT Architecture 2007-06-02

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

Essential Guide to Computer Architecture for Beginners and Novices 2021-03-25

although the term computer architecture sounds very complicated its definition is easier than one might think computer architecture is a science or a set of rules stating how computer software and hardware are joined together and interact to make a computer work it not only determines how the computer works but also of which technologies the computer is capable computers continue to be a major part of our lives and computer architects continue to develop new and better programs and technologies computer architecture concentrates on the logical aspects of computer design as opposed to the physical or electronic aspects the underlying logical design of most modern computers is still based on that of the earliest electronic computers despite decades of progress in electronic circuitry the innovations that have occurred in computer architecture have been driven by

two different goals higher performance and lower cost performance driven improvements have yielded computer systems with increasingly higher computation speeds and throughput cost driven improvements have yielded systems that are easier to use and applicable to a broader range of automatic control problems improvements in electronic circuitry have not led directly to architectural innovations computers that pioneered new circuit technologies usually relied on older architectural concepts

Guide to Cloud Computing *2012-11-28*

this book describes the landscape of cloud computing from first principles leading the reader step by step through the process of building and configuring a cloud environment the book not only considers the technologies for designing and creating cloud computing platforms but also the business models and frameworks in real world implementation of cloud platforms emphasis is placed on learning by doing and readers are encouraged to experiment with a range of different tools and approaches topics and features includes review questions hands on exercises study activities and discussion topics throughout the text demonstrates the approaches used to build cloud computing infrastructures reviews the social economic and political aspects of the on going growth in cloud computing use discusses legal and security concerns in cloud computing examines techniques for the appraisal of financial investment into cloud computing identifies areas for further research within this rapidly moving field

Object Management Architecture Guide 1995-08-30

the object management architecture guide explains the object management architecture what it is and how it will be implemented it also provides a complete overview of the object management group and its mission and explains what omg s role is in making oma a reality the oma guide contains descriptions of omg s central design guidelines the object model and reference model and demonstrates how omg uses them to create a distributed object computing environment it explains omg s technical objectives and the process by which they are achieved the guide also provides information on how omg works to achieve consensus in creating an open distributed object environment and how you can participate in that process

Software Architecture 2011-09-18

as a software architect you work in a wide ranging and dynamic environment you have to understand the needs of your customer design architectures that satisfy both functional and non functional requirements and lead development teams in implementing the architecture and it is an environment that is constantly changing trends such as cloud computing service orientation and model driven procedures open up new architectural possibilities this book will help you to develop a holistic architectural awareness and knowledge base that extends beyond concrete methods techniques and technologies it will also help you to acquire or expand the technical methodological and social competences that you need the authors place the spotlight on you the architect and offer you long term architectural orientation they give you numerous guidelines checklists and best practices to support you in your practical work software architecture offers it students software developers and software architects a holistic and consistent orientation across relevant topics the

book also provides valuable information and suggestions for system architects and enterprise architects since many of the topics presented are also relevant for their work furthermore it project leads and other it managers can use the book to acquire an enhanced understanding of architecture further information is available at [software architecture book org](http://software-architecture-book.org)

Guide to Web Application and Platform Architectures ***2004-08-05***

new concepts and technologies are being introduced continuously for application development in the world wide selecting the right implementation strategies and tools when building a application has become a tedious task requiring in depth knowledge and significant experience from both software developers and software managers the mission of this book is to guide the reader through the opaque jungle of technologies based on their long industrial and academic experience stefan jablonski and his coauthors provide a framework architecture for applications which helps choose the best strategy for a given project the authors classify common technologies and standards like net corba j2ee dcom wsdl and many more with respect to platform architectural layer and application package and guide the reader through a three phase development process consisting of preparation design and technology selection steps the whole approach is exemplified using a real world case the architectural design of an order entry management system

Guide to Reliable Distributed Systems 2012-01-13

this book describes the key concepts principles and implementation options for creating high

assurance cloud computing solutions the guide starts with a broad technical overview and basic introduction to cloud computing looking at the overall architecture of the cloud client systems the modern internet and cloud computing data centers it then delves into the core challenges of showing how reliability and fault tolerance can be abstracted how the resulting questions can be solved and how the solutions can be leveraged to create a wide range of practical cloud applications the author's style is practical and the guide should be readily understandable without any special background concrete examples are often drawn from real world settings to illustrate key insights appendices show how the most important reliability models can be formalized describe the api of the isis2 platform and offer more than 80 problems at varying levels of difficulty

Web Services, Service-Oriented Architectures, and Cloud Computing 2012-12-31

services service oriented architectures and cloud computing is a jargon free highly illustrated explanation of how to leverage the rapidly multiplying services available on the internet the future of business will depend on software agents mobile devices public and private clouds big data and other highly connected technology it professionals will need to evaluate and combine online services into service oriented architectures soa often depending on services and cloud computing this can mean a fundamental shift away from custom software and towards a more nimble use of semantic vocabularies middle tier systems adapters and other standardizing aspects this book is a guide for the savvy manager who wants to capitalize on this technological revolution it begins with a high level example of how an average person might interact with a service oriented architecture and progresses to more detail discussing technical forces driving adoption and how to manage technology culture and personnel issues that can arise during adoption an extensive reference

section provides quick access to commonly used terms and concepts broad non technical explanation of a technical topic for managers at all levels only web services book to cover data management and software engineering perspectives excellent resource for all members of it teams provides a set of leadership principles and suggested applications for using this technology

NET Application Architecture Guide 2009

the guide is intended to serve as a practical and convenient overview of and reference to the general principles of architecture and design on the microsoft platform and the net framework

The SIM Guide to Enterprise Architecture 2009-10-26

enterprise architecture is leading it s way to the executive boardroom as cios are now taking their place at the management table organizations investing their time money and talent in enterprise architecture ea have realized significant process improvement and competitive advantage however as these organizations discovered it is one thing

Programming Guide for Wearable Computing 2016-10-26

programming guide for wearable computing architecture algorithm and examples gives expertise in proven techniques for writing the front end middleware and back end software for the wearable computing ecosystem sample projects and the available code libraries are explained in detail to illustrate how the innovative new applications can be built from the available devices libraries and infrastructure already present in the industry wearable computing is the emerging computer solution

market segment where the devices are very small in size ultra low in power consumption and fashionable in design so that they can be worn by people on the go constantly and provide all kinds of smart assistance to the user beyond what the mobile phones can do today google glass apple iwatch and sony smartwatch are just three of the examples available today more devices and back end services will be emerging in the next few years programming guide for wearable computing starts from an overview of the devices and library infrastructures available with text aimed both for technologists new to the business as well as new to topic experienced market players then the book illustrates a sample architecture based on which different developers can coordinate all the components in the ecosystem that are vendor neutral and device neutral but can be tested using readily available sample equipment based on this accessible architecture sample projects are expanded on the front end components middleware components and the back end components so that the reader receives a concise but comprehensive introduction to wearable device development a comprehensive list of references is given providing next steps on the path to learning in this emerging and highly visible new field

Alpha Implementations and Architecture 1996

practicing computer engineers and graduate students in computer architecture alike will find this reference book invaluable as it describes the tradeoffs and design philosophy that lead to the development of the alpha architecture and its implementation alpha architecture and implementation provides a comprehensive description of all major aspects of alpha systems the book includes an overview of the history of risc development in the computer industry and at digital the alpha architecture all the major processor chips and system implementations the book also covers risc concept and design styles and provides an overview of other risc architectures and

descriptions of the new sparc mips power pc and pa risc microprocessors introduced in 1995 the book also discusses operating system porting issues compiler techniques and binary translation dileep bhankdarker was a senior consulting engineering in the alpha systems business group at digital equipment corporation he has been responsible for leading the technical direction and product strategy of alpha personal systems alpha and vax servers and high performance computing he was the architecture manager for microvax chief architect for vax vector processing and co architect of the prism risc architecture on which alpha is based he has a btech degree in electrical engineering from the indian institute of technology in bombay and an ms and phd in electrical engineering from carnegie mellon university dileep holds 15 us patents and is senior member of ieee he is the author of more than 30 technical publication on computer architecture semiconductor technology and performance analysis he currently works for intel corporation only comprehensive treatise on alpha architecture chips and systems insider s view of alpha a comprehensive discussion of alpha with overviews of competing architectures

Software Architecture Fundamentals 2019-02-27

software architecture is an important factor for the success of any software project in the context of systematic design and construction solid software architecture ensures the fulfilment of quality requirements such as expandability flexibility performance and time to market software architects reconcile customer requirements with the available technical options and the prevailing conditions and constraints they ensure the creation of appropriate structures and smooth interaction of all system components as team players they work closely with software developers and other parties involved in the project this book gives you all the basic know how you need to begin designing scalable system software architectures it goes into detail on all the most important terms and

concepts and how they relate to other it practices following on from the basics it describes the techniques and methods required for the planning documentation and quality management of software architectures it details the role the tasks and the work environment of a software architect as well as looking at how the job itself is embedded in company and project structures the book is designed for self study and covers the curriculum for the certified professional for software architecture foundation level cpsa f exam as defined by the international software architecture qualification board isaqb

A Practical Guide to Enterprise Architecture 2004

bull written by expert practitioners who have hands on experience solving real world problems for large corporations bull helps enterprise architects make sense of data systems software services product lines methodologies and much more bull provides explanation of theory and implementation with real world business examples to support key points

New Guide To Computer Architecture Handbook For Beginners And Dummies 2021-04-17

computer architecture is a specification detailing how a set of software and hardware technology standards interact to form a computer system or platform in short computer architecture refers to how a computer system is designed and what technologies it is compatible with as with other contexts and meanings of the word architecture computer architecture is likened to the art of determining the needs of the user system technology and creating a logical design and standards

based on those requirements a very good example of computer architecture is von neumann architecture which is still used by most types of computers today this was proposed by the mathematician john von neumann in 1945 the core of the von neumann architecture states that the memory is used to store both data and programs in order for a cpu to accomplish meaningful work it must have two inputs instructions and data instructions tell the cpu what actions need to be performed on the data instructions are represented with binary codes just like data in fact the cpu makes no distinction about the whether it is storing instructions or data in memory this concept is called the stored program concept early computing devices were not known for their flexibility as the program that each device executed tended to be built into the control unit as a part of the machine one approach used to gain flexibility in early electronic computers was to design the control units so they could be conveniently rewired a breakthrough came with the realization that the program just like data can be coded and stored in main memory if the control unit is designed to extract the program from memory decode the instructions and execute them a computer s program can be changed merely by changing the contents of the computer s memory instead of rewiring the control unit this stored program concept has become the standard approach used today to apply it a machine is designed to recognize certain bit patterns as representing certain instructions

Enterprise System Architectures 2017-12-14

experts from andersen consulting show you how to combine computing communications and knowledge to deliver a uniquely new and entirely indispensable competitive advantage lead follow or get out of the way your company s ability to sustain a competitive advantage is in jeopardy your competitors can imitate and improve faster than ever you need to find ways to help your company discover and deliver and astounding solution control its costs and move on the next astounding

solution based computing is the vital technology enabler for today s most important business opportunities like e commerce it is also the flexible foundation for future solutions however because of the complexities and difficulties it represents it can be critical hurdle for it shops and for an entire business enterprise systems architecture building client server and based systems is your guide through these complexities as you integrate your technology capabilities with your strategy people and processes to deliver astounding solutions it introduces you to basic principles and concepts provides an overview of state of the art in client server and based computing models and develops a solid business case for implementation acquaints you with various technologies involved and describes a comprehensive network computing architecture details crucial analysis design and implementation issues including design specifics for architectures applications and network rollout strategies and ongoing management of distributed operations explores emerging technologies and their likely impact on the future of netcentric computing here you ll find detailed information on the architectures and frameworks for network based computing strategies for designing and implementing solutions strategies and methods for security it also provides a full framework for testing applications and in depth dis

Large-Scale Software Architecture 2003-07-25

the purpose of large scale software architecture is to capture and describe practical representations to make development teams more effective in this book the authors show how to utilise software architecture as a tool to guide the development instead of capturing the architectural details after all the design decisions have been made offers a concise description of uml usage for large scale architecture discusses software architecture and design principles technology and vendor independent

From Architectures to Operating Systems 2019

from federal express s package tracking website to amazon com netcentric computing has been evolving slowly but surely one solution at a time since the early 1990s over the past year or so the trickle has grown into a torrent of netcentric innovations of wider and wider scope developed in companies around the globe now a new enterprise computing paradigm has sprung into being until now there has been no comprehensive netcentric model clearly defined netcentric system architecture or established set of guiding principles to help you gear up for this next stage in the evolution of enterprise computing written by the experts at andersen consulting netcentric and client server computing a practical guide offers you this and more of course a book can never take the place of experts who wrote it but this revised updated and expanded edition of andersen consulting s noted guide is an important first step in acquiring the knowledge and skills you need to bring netcentric capabilities into your organization you ll learn from 13 acknowledged world experts what netcentric computing is how it works and how you can use it to provide your organization with an unstoppable competitive edge based upon their experiences with mission critical netcentric implementations at 100 of the most successful business organizations on the planet these experts explain how netcentric computing can help you enable new business capabilities using dozens of fascinating case examples they show you how to seamlessly integrate computing communications and knowledge resources in order to forge solid links among your company s employees units customers suppliers and partners regardless of time location device or content and they provide priceless advice and guidance on how to exploit the endless array of possibilities provided by netcentric computing to develop exciting new customer services identify new markets cut costs engineer internal processes for improved business performance and more netcentric and client server computing is divided into four self contained sections for ease of reference section i

introduces you to basic netcentric principles and concepts provides an overview of state of the art in netcentric computing models and develops a solid business case for netcentric computing section ii acquaints you with the various technologies involved and describes a comprehensive netcentric architecture section iii is devoted to crucial analysis design and implementation issues including design specifics for architectures applications and networks rollout strategies and ongoing management of distributed operations section iv explores emerging technologies and their likely impact on the future of netcentric computing

NetCentric and Client/Server Computing 1998-12-18

embedded systems architecture is a practical and technical guide to understanding the components that make up an embedded system s architecture this book is perfect for those starting out as technical professionals such as engineers programmers and designers of embedded systems and also for students of computer science computer engineering and electrical engineering it gives a much needed big picture for recently graduated engineers grappling with understanding the design of real world systems for the first time and provides professionals with a systems level picture of the key elements that can go into an embedded design providing a firm foundation on which to build their skills real world approach to the fundamentals as well as the design and architecture process makes this book a popular reference for the daunted or the inexperienced if in doubt the answer is in here fully updated with new coverage of fpgas testing middleware and the latest programming techniques in c plus complete source code and sample code reference designs and tools online make this the complete package visit the companion web site at booksite.elsevier.com/9780123821966 for source code design examples data sheets and more a true introductory book provides a comprehensive get up and running reference for those new to the field and updating skills assumes

no prior knowledge beyond undergrad level electrical engineering addresses the needs of practicing engineers enabling it to get to the point more directly and cover more ground covers hardware software and middleware in a single volume includes a library of design examples and design tools plus a complete set of source code and embedded systems design tutorial materials from companion website

Embedded Systems Architecture 2012-12-31

service oriented architecture field guide for executives is a fundamental breakthrough in the business and technology perspectives of service oriented architecture soa a valuable resource to help you understand and realize the benefits of soa in today s companies this guide will show you how to plan implement and achieve soa value use a prescriptive approach to help you clearly understand soa and to determine its applications for your business applicable to all industries technology platforms and operating environments this innovative book will provide you with essential strategies

Service Oriented Architecture Field Guide for Executives 2008-06-30

many people have ditched the idea of going into software design because the books or courses they have encountered are difficult this book was created to bring a solution to your headaches it was written to help amateurs and encourage beginners not to give up or be overwhelmed by all of the advanced books on the market

Clean Architecture 2020-02-02

harness the power of enterprise architecture aws and agile methodologies to optimize operational efficiency in your organization key features use ea and agile practices to maximize your organization's operational efficiency learn how to use ea approaches in aws through their prescriptive frameworks align safe principles with ea and cloud migration book description agile implementation of enterprise architecture ea in the cloud is a powerful organizational tool but it is challenging particularly for architects who are used to on premises environments this in depth guide will tell you all you need to know to reap the benefits of applying ea in your organization to achieve operational efficiency starting with an overview of the foundations of enterprise architecture you'll see how it can be applied to aws as well as explore the frameworks aws provides for ea such as the aws well architected framework that's not all the book shows you how these frameworks align with the open group architecture framework to gaf architecture development method adm and the zachman framework so that you can choose the right fit for your organization as you advance you'll learn how to apply safe to make your organization agile as well as efficient once you've gotten to grips with the theory you can explore use cases and take a quiz at the end of the book to test yourself and see how ea is applied in practice by the end of this enterprise architecture book you'll have the skills and knowledge required to apply ea in the cloud with aws and drive your organization to become super efficient and agile what you will learn set up the core foundation of your enterprise architecture rediscover how to gaf relates to enterprise architecture explore aws's ea frameworks and find out which one is the best for you use safe to maximize agility in your organization find out how to use archimate to model your architecture establish proper ea practices in your organization migrate to the cloud with aws and safe who this book is for this agility book is for experienced and inexperienced solutions architects enterprise architects and cloud architects who know the basics of

software and solutions architecture along with cloud fundamentals and are looking to get started with aws and safe to implement enterprise architecture in the cloud

Realize Enterprise Architecture with AWS and SAFe 2022-09-16

this pocket guide describes the purpose role and value of architecture in the enterprise and the makeup and skillsets of the architecture team in different business contexts it explores the relationship between architecture project management

Enterprise Architecture 2009

saa is ibm s blueprint for future software development in any organization using or interfacing with ibm computers it represents ibm s attempt to bring order to the chaotic world of computer software and software development grochow s text provides both technical and managerial perspectives on what it means to implement saa annotation copyrighted by book news inc portland or

SAA 1991

reap the benefits of increased roi by integrating service oriented design principles and xml services into your it infrastructure

Service-oriented Architecture 2004

your one stop resource for digital system design the explosion in communications and embedded computing technologies has brought with it a host of new skill requirements for electrical and electronics engineers students and hobbyists with engineers expected to have such diverse expertise they need comprehensive easy to understand guidance on the fundamentals of digital design enter mcgraw hill s complete digital design written by an experienced electrical engineer and networking hardware designer this book helps you understand and navigate the interlocking components architectures and practices necessary to design and implement digital systems it includes real world implementation of microprocessor based digital systems broad presentation of supporting analog circuit principles building complete systems with basic design elements and the latest technologies complete digital design will teach you how to develop a customized set of requirements for any design problem and then research and evaluate available components and technologies to solve it perfect for the professional the student and the hobbyist alike this is one volume you need handy at all times what you ll find inside digital logic and timing analysis integrated circuits microprocessor and computer architecture memory technologies networking and serial communications finite state machine design programmable logic cpld and fpga analog circuit basics diodes transistors and operational amplifiers analog to digital conversion voltage regulation signal integrity and pcb design and more

A Practical Guide to Information Architecture 2010-12

parallel computing architectures and apis iot big data stream processing commences from the point high performance uniprocessors were becoming increasingly complex expensive and power hungry a

basic trade off exists between the use of one or a small number of such complex processors at one extreme and a moderate to very large number of simpler processors at the other when combined with a high bandwidth interprocessor communication facility leads to significant simplification of the design process however two major roadblocks prevent the widespread adoption of such moderately to massively parallel architectures the interprocessor communication bottleneck and the difficulty and high cost of algorithm software development one of the most important reasons for studying parallel computing architectures is to learn how to extract the best performance from parallel systems specifically you must understand its architectures so that you will be able to exploit those architectures during programming via the standardized apis this book would be useful for analysts designers and developers of high throughput computing systems essential for big data stream processing emanating from iot driven cyber physical systems cps this pragmatic book devolves uniprocessors in terms of a ladder of abstractions to ascertain say performance characteristics at a particular level of abstraction explains limitations of uniprocessor high performance because of moore s law introduces basics of processors networks and distributed systems explains characteristics of parallel systems parallel computing models and parallel algorithms explains the three primary categorical representatives of parallel computing architectures namely shared memory message passing and stream processing introduces the three primary categorical representatives of parallel programming apis namely openmp mpi and cuda provides an overview of internet of things iot wireless sensor networks wsn sensor data processing big data and stream processing provides introduction to 5g communications edge and fog computing parallel computing architectures and apis iot big data stream processing discusses stream processing that enables the gathering processing and analysis of high volume heterogeneous continuous internet of things iot big data streams to extract insights and actionable results in real time application domains requiring data stream management include military homeland security sensor networks financial applications

network management web site performance tracking real time credit card fraud detection etc

Complete Digital Design: A Comprehensive Guide to Digital Electronics and Computer System Architecture 2003-06-22

experts from andersen consulting show you how to combine computing communications and knowledge to deliver a uniquely new and entirely indispensable competitive advantage lead follow or get out of the way your company s ability to sustain a competitive advantage is in jeopardy your competitors can imitate and improve faster than ever you need to find ways to help your company discover and deliver and astounding solution control its costs and move on the next astounding solution based computing is the vital technology enabler for today s most important business opportunities like e commerce it is also the flexible foundation for future solutions however because of the complexities and difficulties it represents it can be critical hurdle for it shops and for an entire business enterprise systems architecture building client server and based systems is your guide through these complexities as you integrate your technology capabilities with your strategy people and processes to deliver astounding solutions it introduces you to basic principles and concepts provides an overview of state of the art in client server and based computing models and develops a solid business case for implementation acquaints you with various technologies involved and describes a comprehensive network computing architecture details crucial analysis design and implementation issues including design specifics for architectures applications and network rollout strategies and ongoing management of distributed operations explores emerging technologies and their likely impact on the future of netcentric computing here you ll find detailed information on the architectures and frameworks for network based computing strategies for designing and implementing solutions strategies and methods for security it also provides a full framework for

testing applications and in depth dis

Parallel Computing Architectures and APIs 2019-12-06

praise for service oriented architecture this book provides a superb overview of the soa topic marks and bell provide practical guidance across the entire soa life cycle from business imperatives and motivations to the post deployment business and technical metrics to consider with this book marks and bell demonstrate a unique ability to take the complex dynamics of soa and through an eloquent set of metaphors models and principles provide an understandable and insightful how to manual for both technical and business executives this will become a required handbook for any organization implementing soa dan bertrand enterprise technology officer eds fellow eds corporation a fundamental breakthrough in the business and technology perspectives of soa this book belongs in every software developer architect and it executive library marks and bell demonstrate a creative and practical approach to building complex service oriented systems i especially liked the hands on perspective brought to multiple aspects of soa a must have guide in the technology turbulence of the future ariel aloni chief technology officer sungard data management solutions this outstanding text gets straight to the heart of the matter cutting through the hyperbole and discussing how to drive real business value through soa it will certainly impact my behavior our governance models and subsequently the successful business outcomes we derive as we continue to embrace soa a must read for battle scarred soa veterans and fledgling architects alike christopher crowhurst vice president and chief architect thomson learning too often soa has been perceived as all about the technology standards technology stacks operational monitoring and the like in this book marks and bell expand beyond the technology to provide a refreshing business driven perspective to soa connecting the dots between business requirements architecture and development and operations

and overlaying these perspectives with tried and true governance techniques to keep soa initiatives on track a must read for those leading the charge to adopt soa within their enterprise brent carlson chief technology officer logiclibrary and coauthor of san francisco design patterns blueprints for business software marks and bell have captured a wealth of practical experience and lessons learned in what has become the hottest topic in software development in this book they explain in detail what works and what does not from procedural issues to technical challenges this book is an invaluable reference for organizations seeking the benefits of soas dr jeffrey s poulin system architect lockheed martin and author of measuring software reuse principles practices and economic models one of the last things companies often consider when implementing a business solution such as soa is the impact on people marks and bell provide an in depth look at what has to change from a process standpoint to make any soa implementation a success a great read for those considering to embark on an enterprise soa and looking for the right mix of people process and products alan himler vice president of product management and marketing logiclibrary soa is a complex topic and a complex organizational goal service oriented architecture a planning and implementation guide for business and technology shows you how to plan implement and achieve soa value through its prescriptive approach joining the business and strategic perspective to the technical and architectural perspective applicable to all industries technology platforms and operating environments this innovative book provides you with the essential strategies to drive greater value from your soa and realize your business goals

Enterprise System Architectures 2017-12-14

well known security experts decipher the most challenging aspect of cloud computing security cloud computing allows for both large and small organizations to have the opportunity to use internet

based services so that they can reduce start up costs lower capital expenditures use services on a pay as you use basis access applications only as needed and quickly reduce or increase capacities however these benefits are accompanied by a myriad of security issues and this valuable book tackles the most common security challenges that cloud computing faces the authors offer you years of unparalleled expertise and knowledge as they discuss the extremely challenging topics of data ownership privacy protections data mobility quality of service and service levels bandwidth costs data protection and support as the most current and complete guide to helping you find your way through a maze of security minefields this book is mandatory reading if you are involved in any aspect of cloud computing coverage includes cloud computing fundamentals cloud computing architecture cloud computing software security fundamentals cloud computing risks issues cloud computing security challenges cloud computing security architecture cloud computing life cycle issues useful next steps and approaches

Service-Oriented Architecture 2008-11-03

details risc design principles as well as explains the differences between this and other designs helps readers acquire hands on assembly language programming experience

Cloud Security 2010-08-31

information technology it leaders must leverage cloud computing to maintain a competitive advantage evidence suggests that it leaders who leverage cloud computing in small and medium sized organizations save an average of 1 million in it services for their organizations in this book dr zeeshan khan explains the world of cloud computing from conceptualization to implementation to

management providing an evidence based resource that outlines key concepts and strategies for success at each stage in the process the first comprehensive guide to present cloud computing research in both theory and practice this book provides a valuable tool for it leaders to adopt cloud computing successfully so they can save money gain a competitive advantage and ensure sustainable business growth that enhances community standards of living in their organizations

Guide to RISC Processors 2005-12-06

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

Cloud Computing 2018-06

enhance your career as an azure architect with cutting edge tools expert guidance and resources from industry leaders key features develop your business case for the cloud with technical guidance from industry experts address critical business challenges effectively by leveraging proven combinations of azure services tackle real world scenarios by applying practical knowledge of

reference architectures purchase of the print or kindle book includes a free pdf ebook book description azure is a sophisticated technology that requires a detailed understanding to reap its full potential and employ its advanced features this book provides you with a clear path to designing optimal cloud based solutions in azure by delving into the platform s intricacies you ll begin by understanding the effective and efficient security management and operation techniques in azure to implement the appropriate configurations in microsoft entra id next you ll explore how to modernize your applications for the cloud examining the different computation and storage options as well as using azure data solutions to help migrate and monitor workloads you ll also find out how to build your solutions including containers networking components security principles governance and advanced observability with practical examples and step by step instructions you ll be empowered to work on infrastructure as code to effectively deploy and manage resources in your environment by the end of this book you ll be well equipped to navigate the world of cloud computing confidently what you will learn implement and monitor cloud ecosystem including computing storage networking and security recommend optimal services for performance and scale provide monitor and adjust capacity for optimal results craft custom azure solution architectures design computation networking storage and security aspects in azure implement and maintain azure resources effectively who this book is for this book is an indispensable resource for azure architects looking to develop cloud based services along with deploying and managing applications within the microsoft azure ecosystem it caters to professionals responsible for crucial it operations encompassing budgeting business continuity governance identity management networking security and automation if you have prior experience in operating systems virtualization infrastructure storage structures or networking and aspire to master the implementation of best practices in the azure cloud then this book will become your go to guide

Building Digital Ecosystem Architectures 2016-04-29

a decade ago the corporate world viewed grid computing as a curiosity today it views it as an opportunity a chance to reduce costs improve performance fund new projects and take advantage of under utilized capacity the engineering behind this transformation has been amply documented until now however little has been written to prepare managers executives and other decision makers to implement grid computing in a sensible and effective way grid computing the savvy manager s guide examines the technology from a rigorous business perspective equipping you with the practical knowledge you need to assess your options and determine what grid computing approach is right for your enterprise this book is heavy on real world experience distilling from a rich assortment of case studies the best practices currently at work in a variety of industries always attentive to grid computing s many competitive advantages it is also realistic about the challenges of selling the idea to staff and making it a part of your company s culture sketches the history of grid computing showing how it made the leap from academia to business examines the criteria you ll need to meet to make your network grid enabled explains how a grid based solution can be made to meet key organizational requirements including security scheduling data storage and fault tolerance surveys the approaches currently available and helps you choose the one that will best meet your needs both now and in the future focuses heavily on the competitive advantages you can reap from grid computing and provides advice on convincing your organization to adopt grid computing and making a successful transition

Azure Architecture Explained 2023-09-22

this book explores in detail everything there is to know about building clean software architecture usually when we talk about software architecture what comes to mind is a good working system we concentrate more on the function of the software than the structure the structure of the system is treated as an inconsequential part of the software development process in relation to this business managers and stakeholders believe that clean software is working software the truth is that a system works well does not mean it is a clean one in this book software architecture is explored from its two most significant qualities structure and behavior the structure of the software plays an important role in software development it determines the behavior of the software the structure covers modules functions classes services and boundaries and encompasses the system itself but most times developers often make the mistake of concentrating more on the behavior of the system while the structure comes last this action has contributed to most of the problems we have in software development today this book explains why the structure of the software should come before the behavior it provides a step by step guide to creating flexible software that will be susceptible to change when the need be it looks at the various principles guiding software design these principles range from dependencies component coupling component cohesion to the classes of elements contained in a software and how these elements can be separated from each other the principles serve as a guideline to creating clean software explanation of the difference between a working architecture and a clean architecture is given clean software runs smoothly and has a longer lifespan than working software the book guides programmers on the foundation and the building blocks to creating clean software also developers are guided on how to make their system obey the rules of testability clean software is testable software

Grid Computing 2005-09-26

data warehouses are quickly becoming an important element of a total is solution this book clearly explains the business benefits and pitfalls of implementing a data warehouse includes a data warehouse planning tool for building the warehouse architecture and evaluating software vendors

Clean Architecture 2020-02-17

use your raspberry pi to get smart about computing fundamentals in the 1980s the tech revolution was kickstarted by a flood of relatively inexpensive highly programmable computers like the commodore now a second revolution in computing is beginning with the raspberry pi learning computer architecture with the raspberry pi is the premier guide to understanding the components of the most exciting tech product available thanks to this book every raspberry pi owner can understand how the computer works and how to access all of its hardware and software capabilities now students hackers and casual users alike can discover how computers work with learning computer architecture with the raspberry pi this book explains what each and every hardware component does how they relate to one another and how they correspond to the components of other computing systems you ll also learn how programming works and how the operating system relates to the raspberry pi s physical components co authored by eben upton one of the creators of the raspberry pi this is a companion volume to the raspberry pi user guide an affordable solution for learning about computer system design considerations and experimenting with low level programming understandable descriptions of the functions of memory storage ethernet cameras processors and more gain knowledge of computer design and operation in general by exploring the basic structure of the raspberry pi the raspberry pi was created to bring forth a new generation of

computer scientists developers and architects who understand the inner workings of the computers that have become essential to our daily lives learning computer architecture with the raspberry pi is your gateway to the world of computer system design

The Official Client/server Computing Guide to Data Warehousing 1996

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