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RYSKOY - PAGE ALIJAH

This report provides an overview of the financial impact of cyber incidents, the coverage of cyber risk available in the insurance market, the challenges to market development and initiatives to address those challenges.

Increase profitability, elevate work culture, and exceed productivity goals through DevOps practices. More than ever, the effective management of technology is critical for business competitiveness. For decades, technology leaders have struggled to balance agility, reliability, and security. The consequences of failure have never been greater—whether it's the healthcare.gov debacle, cardholder data breaches, or missing the boat with Big Data in the cloud. And yet, high performers using DevOps principles, such as Google, Amazon, Facebook, Etsy, and Netflix, are routinely and reliably deploying code into production hundreds, or even thousands, of times per day. Following in the footsteps of The Phoenix Project, The DevOps Handbook shows leaders how to replicate these incredible outcomes, by showing how to integrate Product Management, Development, QA, IT Operations, and Information Security to elevate your company and win in the marketplace.

Provides information and examples on writing JavaScript code, covering such topics as syntax, control, data, regular expressions, and scripting.

This classic reference, now updated with the newest applications and results, addresses the fundamentals of such trials based on sound scientific methodology, statistical principles, and years of accumulated experience by the three authors.

Around the world, access to justice enjoys an energetic and passionate resurgence as an object both of scholarly inquiry and political contest, as both a social movement and a value commitment motivating study and action. This work evidences a deeper engagement with social theory than past generations of scholarship.

If you're looking to take full advantage of multi-core processors with concurrent programming, this practical book provides the knowledge and hands-on experience you need. The Art of Concurrency is one of the few resources to focus on implementing algorithms in the shared-memory model of multi-core processors, rather than just theoretical models or distributed-memory architectures. The book provides detailed explanations and usable samples to help you transform algorithms from serial to parallel code, along with advice and analysis for avoiding mistakes that programmers typically make when first attempting these computations. Written by an Intel engineer with over two decades of parallel and concurrent programming experience, this book will help you: Understand parallelism and concurrency Explore differences between programming for shared-memory and distributed-memory Learn guidelines for designing multithreaded applications, including testing and tuning Discover how to make best use of

different threading libraries, including Windows threads, POSIX threads, OpenMP, and Intel Threading Building Blocks Explore how to implement concurrent algorithms that involve sorting, searching, graphs, and other practical computations The Art of Concurrency shows you how to keep algorithms scalable to take advantage of new processors with even more cores. For developing parallel code algorithms for concurrent programming, this book is a must.

GIS for Sustainable Development examines how GIS applications can improve collaboration in decision making among those involved in promoting sustainable development. This volume reviews leading GIScience, providing an overview of research topics and applications that enable GIS newcomers and professionals to apply GIScience methods to sustain

Structure templates and content within Sitecore, work with integrated tools, and leverage its extensive automation capabilities. Sitecore was recently recognized as one of the most reputable and reliable, enterprise-class web content management solutions (WCMS) available in the marketplace. Thousands of companies are using Sitecore to manage their digital experiences online. Because Sitecore is such a large, complex platform, developers often have a hard time coming up to speed, even after completing a Sitecore training course for developers. However, leveraging the design patterns and other practices laid out in this book will make that transition much easier. Professional Sitecore 8 Development provides a soup-to-nuts approach for a Sitecore rookie to come up to speed quickly, as well as provide more advanced techniques for seasoned veterans that they may not be exposed to otherwise. Key coverage areas include: Getting started with Sitecore development Front-end development techniques Incorporating design patterns into your Sitecore solutions Unit testing Sitecore applications Programming Sitecore's marketing capabilities Sitecore automation with PowerShell Advanced development techniques What you'll learn Develop solutions on the Sitecore platform Come up to speed on Sitecore without going through a training class Build front-end (HTML, CSS, Angular, etc.) solutions as well as back-end (C#) solutions on Sitecore Incorporate design patterns into your Sitecore solutions Make use of advanced Sitecore development techniques Who This Book Is For The book is a developer's companion, both front end and back end developers. The target audience is both developers who have zero Sitecore experience, as well as seasoned veterans looking for advanced best practices. A secondary audience would be Sitecore administrators who would benefit from discussions around performance tuning and security.

Agile Estimating and Planning is the definitive, practical guide to estimating and planning agile projects. In this book, Agile Alliance cofounder Mike Cohn discusses the philosophy of agile estimating and planning and shows you exactly how to get the job done, with real-world examples and case studies. Concepts are clearly il-

illustrated and readers are guided, step by step, toward how to answer the following questions: What will we build? How big will it be? When must it be done? How much can I really complete by then? You will first learn what makes a good plan—and then what makes it agile. Using the techniques in Agile Estimating and Planning, you can stay agile from start to finish, saving time, conserving resources, and accomplishing more. Highlights include: Why conventional prescriptive planning fails and why agile planning works How to estimate feature size using story points and ideal days—and when to use each How and when to re-estimate How to prioritize features using both financial and nonfinancial approaches How to split large features into smaller, more manageable ones How to plan iterations and predict your team's initial rate of progress How to schedule projects that have unusually high uncertainty or schedule-related risk How to estimate projects that will be worked on by multiple teams Agile Estimating and Planning supports any agile, semiagile, or iterative process, including Scrum, XP, Feature-Driven Development, Crystal, Adaptive Software Development, DSDM, Unified Process, and many more. It will be an indispensable resource for every development manager, team leader, and team member.

Looking to select a web content management system (CMS), but confused about the promises, terminology, and buzzwords? Do you want to understand content management without having to dive into the underlying programming? This book provides a clear, unbiased overview of the entire CMS ecosystem—from platforms to implementations—in a language- and platform-agnostic manner for project managers, executives, and new developers alike. Author Deane Barker, a CMS consultant with almost two decades of experience, helps you explore many different systems, technologies, and platforms. By the end of the book, you'll have the knowledge necessary to make decisions about features, architectures, and implementation methods to ensure that your project solves the right problems. Learn what content is, how to compare different systems, and what the roles of a CMS team are Understand how a modern CMS models and aggregates content, coordinates workflow, and manages assets Explore the scope and structure of a CMS implementation project Learn the process and best practices for successfully running your CMS implementation Examine the practice of migrating web content, and learn how to work with an external CMS integrator

Data spanning the Archaic to Early Postclassic are presented, with particular analytical focus given to the end of the Early Classic through the Late and Terminal Classic and the geopolitical tumult that defined this period. Cast in the framework of political ecology, together these studies not only shed light on specific class histories of the region. They also advance a theory for understanding the contributions of non-elites to political growth and change over time. Classic Maya Political Ecology opens a window into pre-Columbian political processes grounded in environmental productivity and a mutual interdependence that defined class relations in northwestern Belize. This volume also outlines a theoretical approach that defines commoners and elites alike as political actors, people who contributed to the long term success and adaptability of local and regional political communities and the networks that sustained them.

In 2008 several heritage sites in Botswana were opened for tourism in addition to the Tsodilo World Heritage Site. Insufficient research was undertaken to understand how local communities and local cultures respond to these ventures. This study presents an overview of community transformation and responses to heritage sites as globalised platforms.

This book presents a rich compilation of real-world cases on digitalization, the goal being to share first-hand insights from respect-

ed organizations and to make digitalization more tangible. As virtually every economic and societal sector is now being challenged by emerging technologies, the digital economy is a highly volatile, uncertain, complex and ambiguous place – and one that holds substantial challenges and opportunities for established organizations. Against this backdrop, this book reports on best practices and lessons learned from organizations that have succeeded in overcoming the challenges and seizing the opportunities of the digital economy. It illustrates how twenty-one organizations have leveraged their capabilities to create disruptive innovations, to develop digital business models, and to digitally transform themselves. These cases stem from various industries (e.g. automotive, insurance, consulting, and public services) and countries, reflecting the many facets of digitalization. As all case descriptions follow a uniform schema, they are easily accessible, and provide insightful examples for practitioners as well as interesting cases for researchers, teachers and students. Digitalization is reshaping business on a global scale, and it is evident that organizations must transform to thrive in the digital economy. Digitalization Cases provides first-hand insights into the efforts of renowned companies. The presented actions, results, and lessons learned are a great inspiration for managers, students, and academics. Anna Kopp, Head of IT Germany, Microsoft Understanding digitalization in all its facets requires knowledge about its opportunities and challenges in different contexts. Providing 21 cases from different companies all around the world, Digitalization Cases makes an important contribution toward the comprehensibility of digitalization – from a practical and a scientific point of view. Dorothy Leidner, Ferguson Professor of Information Systems, Baylor University This book is a great source of inspiration and insight on how to drive digitalization. It shows easy to understand good practice examples which illustrate opportunities, and at the same time helps to learn what needs to be done to realize them. I consider this book a must-read for every practitioner who cares about digitalization. Martin Petry, Chief Information Officer and Head of Business Excellence, Hilti

Sitecore was recently recognized as one of the most reputable/reliable web content management solutions (WCMS) in the marketplace. Thousands of companies use Sitecore to help manage their web and mobile digital properties. Sitecore is a very large, complex platform that performs many robust functions and capabilities. As such, marketers and end users often have a hard time coming up to speed on the technology. Practical Sitecore 8 Configuration and Strategy: A User Guide for Sitecore's Content and Marketing Capabilities provides that opportunity. The flow of the book will take newbies step-by-step on how to configure Sitecore content, personalization, and marketing automation capabilities. Sprinkled in through the book will be callouts that highlight strategies and best practices—taking the book beyond just the “how to” step-by-step procedures that can be found elsewhere. Practical Sitecore 8 Configuration and Strategy: Brings you up to speed on Sitecore without requiring a training class. Provides the information in a clear, logical outline that takes users from simple, foundational concepts to more advanced concepts at the end. Rounds out existing sources of documentation with strategies and best practices from real-world experience. What You'll Learn How to manage content in Sitecore How to create web forms and landing pages How to optimize the site through personalization and A/B/N testing How to use Sitecore for your marketing campaigns How to leverage analytics for custom measurement/engagement strategies How to create a robust governance plan for your Sitecore properties Who This Book Is For The key target audience for this book are content administrators (content authoring, forms development, etc.) and digital marketers (campaigns, analytics, marketing automation, experience optimiza-

tion, etc.) using the Sitecore platform.

Written by sixteen of Canada's pioneering nuclear scientists, the book focuses on Canada's nuclear program at AECL's laboratories at Chalk River, Ontario, and Whiteshell, Manitoba, between the years 1943 and 1985. Topics include the organization and operations of AECL's laboratories, nuclear safety and radiation protection, radioisotopes, basic research, development of the CANDU reactor, and the management of radioactive wastes. As well as providing a valuable historical perspective on Canadian science, *Canada Enters the Nuclear Age* offers useful guidance for innovative scientific development in the future, a future that will depend on developing and nurturing technically sophisticated industry.

Rev. ed. of: *Clinical diagnosis and management by laboratory methods* / [edited by] John Bernard Henry. 20th ed. c2001.

A global exploration of coal geology, from production and use to chemical properties and coal petrology *Coal Geology*, 3rd Edition, offers a revised and updated edition of this popular book which provides a comprehensive overview of the field of coal geology including coal geophysics, hydrogeology and mining. Also covered in this volume are fully revised coverage of resource and reserve definitions, equipment and recording techniques together with the use of coal as an alternative energy source as well as environmental implications. This third edition provides a textbook ideally suited to anyone studying, researching or working in the field of coal geology, geotechnical engineering and environmental science. Fills the gap between academic aspects of coal geology and the practical role of geology in the coal industry Examines sedimentological and stratigraphical geology, together with mining, geophysics, hydrogeology, environmental issues and coal marketing Defines global coal resource classifications and methods of calculation Addresses the alternative uses of coal as a source of energy Covers a global approach to coal producers and consumers

Focusing specifically on the management of karst environments, this volume draws together the world's leading karst experts to provide a vital source for the study and management of this unique physical setting. Although karst landscapes cover 12% of the Earth's terrain and provide 25% of the world's drinking water, the resource management of karst environments has only previously received indirect attention. Through a comprehensive approach, *Karst Management* focuses on engineering issues associated with surface karst such as quarries, dams, and agriculture, subsurface topics such as the management of groundwater, show caves, cave biota, and geo-archaeology projects. Chapters that focus on karst as an integrated system look at IUCN World Heritage sites, national parks, policy and regulation, measuring systematic disturbance, information management, and public environmental education. The text incorporates the most up-to-date research from leading karst scientists. This volume provides important perspectives for university students, educators, geoengineers, resource managers, and planners who are interested in or work with this unique physical landscape.

A Lean Safety Gemba Walk is a walk through the work area (Gemba) that focuses on the continuous improvement of safety. When conducted in a respectful manner, by skilled facilitators, Safety Gemba Walks can have a dramatic long-lasting impact on the culture of a business. *Lean Safety Gemba Walks: A Methodology for Workforce Engagement and Culture Change* is a follow-up to the author's bestselling book, *Lean Safety*, published in 2010. It is a natural progression from the philosophical overview provided by *Lean Safety* to the reality of the application of those principles in facilities around the world. This book presents a collection of Lean Safety Gemba Walk case studies that are based on the author's experiences over the last four years. As the stories unfold, read-

ers are transported on a journey of discovery through the Gemba and begin to see safety differently just as those who physically participated. Illustrating the importance of employee engagement and culture change, the book provides you with the tools to engage managers, employees, and hourly staff in the continuous improvement of safety. The concepts covered will allow you to empower employees to make a difference in their safety culture rather than simply complying with safety rules.

With Bluetooth Low Energy (BLE), smart devices are about to become even smarter. This practical guide demonstrates how this exciting wireless technology helps developers build mobile apps that share data with external hardware, and how hardware engineers can gain easy and reliable access to mobile operating systems. This book provides a solid, high-level overview of how devices use BLE to communicate with each other. You'll learn useful low-cost tools for developing and testing BLE-enabled mobile apps and embedded firmware and get examples using various development platforms—including iOS and Android for app developers and embedded platforms for product designers and hardware engineers. Understand how data is organized and transferred by BLE devices Explore BLE's concepts, key limitations, and network topology Dig into the protocol stack to grasp how and why BLE operates Learn how BLE devices discover each other and establish secure connections Set up the tools and infrastructure for BLE application development Get examples for connecting BLE to iPhones, iPads, Android devices, and sensors Develop code for a simple device that transmits heart rate data to a mobile device

Build complex, observable, and fault-tolerant serverless systems easily on Microsoft Azure. Key Features Use serverless systems to help you fulfill complex requirements Develop your knowledge of Azure Microsoft Serverless Understand concepts with a hands-on approach and helpful examples Book Description *Advanced Serverless Architectures with Microsoft Azure* redefines your experience of designing serverless systems. It shows you how to tackle challenges of varying levels, not just the straightforward ones. You'll be learning how to deliver features quickly by building systems, which retain the scalability and benefits of serverless. You'll begin your journey by learning how to build a simple, completely serverless application. Then, you'll build a highly scalable solution using a queue, load messages onto the queue, and read them asynchronously. To boost your knowledge further, the book also features durable functions and ways to use them to solve errors in a complex system. You'll then learn about security by building a security solution from serverless components. Next, you'll gain an understanding of observability and ways to leverage application insights to bring you performance benefits. As you approach the concluding chapters, you'll explore chaos engineering and the benefits of resilience, by actively switching off a few of the functions within a complex system, submitting a request, and observing the resulting behavior. By the end of this book, you will have developed the skills you need to build and maintain increasingly complex systems that match evolving platform requirements. What you will learn Understand what true serverless architecture is Study how to extend and scale architectures until they become 'complex' Implement durable functions in your design Improve the observability of your serverless architecture Implement security solutions using serverless services Learn how to 'practise' chaos engineering in production Who this book is for *Advanced Serverless Architectures with Microsoft Azure* is ideal if you want to build serverless systems with fewer outages and high performance using Azure. Familiarity with the C# syntax and Azure Functions and ARM templates will help you to benefit more from this book. Prior knowledge of basic front-end development, HTML, JS, and CSS is beneficial but not essential. Some DevOps knowl-

edge is also beneficial but not essential.

Over 70 incredibly effective and practical recipes to get you up and running with Sitecore development About This Book Build enterprise-level rich websites quickly and deliver the best possible content management to your website Get maximum usage of functionalities like different user interfaces, workflow, publishing, search, analytics, etc and learn different rendering techniques using presentation components for data bindings, events, handlers, schedulers, media, etc. Add a surprising amount of functionality just by customizing the Sitecore architecture through the best practices contained in this book Who This Book Is For If you are a Sitecore developer or a programmer who wants to expand your Sitecore development skills, this book is ideal for you. You will need working knowledge of ASP.NET WebForms or MVC, as well as HTML, and a basic knowledge of Sitecore installation. What You Will Learn Create, access, and personalize your website content using different Sitecore presentation components Learn how to extend the presentation components to fulfill some real-life requirements such as improving the site's performance, generating Rss feeds and so on Work with multiple websites on a single Sitecore instance and create multilingual websites Customize the Sitecore interfaces as per your business requirements to provide easier and error-free user interface to content authors to save time and improve accuracy Customize the Sitecore backend architecture as per your business needs Automate tasks and achieve scalability by altering the development and configuration settings Integrate external systems with Sitecore to import or export content and secure user interactions Integrate the advanced features of analytics and personalization, to get the best possible customer experience and generate its reports In Detail This book will get you started on building rich websites, and customizing user interfaces by creating content management applications quickly. It will give you an insight into web designs and how to customize the Sitecore architecture as per your website's requirements using best practices. Packed with over 70 recipes to help you achieve and solve real-world common tasks, requirements, and the problems of content management, content delivery, and publishing instance environments. It also presents recipes on Sitecore's backend processes of customizing pipelines, creating custom event handler and media handler, setting hooks and more. Other topics covered include creating a workflow action, publishing sublayouts and media files, securing your environment by customizing user profiles and access rights, boosting search capabilities, optimising performance, scalability and high-availability of Sitecore instances and much more. By the end of this book, you will have be able to add virtually limitless features to your websites by developing and deploying Sitecore efficiently. Style and approach This easy-to-follow guide is full of hands-on recipes on real-world development tasks to improve your existing Sitecore system. Each topic is presented with its benefits and detailed steps to achieve it through well-explained code and images.

Over 70 recipes to effectively apply DevOps best practices and implement Agile, Git, CI-CD & Test automation using Azure DevOps Server (TFS) 2019 Key Features Learn improving code quality using pull requests, branch policies, githooks and git branching design Accelerate the deployment of high quality software by automating build and releases using CI-CD Pipelines. Learn tried and tested techniques to automate database deployments, App Service & Function Deployments in Azure. Book Description Azure DevOps Server, previously known as Team Foundation Server (TFS), is a comprehensive on-premise DevOps toolset with a rich ecosystem of open source plugins. This book is your one stop guide to learn how to effectively use all of these Azure DevOps services to go from zero to DevOps. You will start by building high-quality scalable software targeting .NET, .NET core or Node.js applica-

tions. You will learn techniques that will help you to set up end-to-end traceability of your code changes from design through to release. Whether you are deploying software on-premise or in the cloud in App Service, Functions, or Azure VMs, this book will help you learn release management techniques to reduce release failures. Next, you will be able to secure application configuration by using Azure KeyVault. You will also learn how to create and release extensions to the Azure DevOps marketplace and reach million developer ecosystem for feedback. The working extension samples will allow you to iterate changes in your extensions easily and release updates to the marketplace quickly. By the end of this book, techniques provided in the book will help you break down the invisible silos between your software development teams. This will transform you from being a good software development team to an elite modern cross functional software development team. What you will learn Set up a team project for an Agile delivery team, importing requirements from ExcelPlan, track, and monitor progress using self updating boards, Sprint and Kanban boards Unlock the features of Git by using branch policies, Git pull requests, forks, and Git hooks Build and release .NET core, SQL and Node.js applications using Azure Pipeline Automate testing by integrating Microsoft and open source testing frameworks Extend Azure DevOps Server to a million developer ecosystem Who this book is for This book is for anyone looking to succeed with DevOps. The techniques in this book apply to all roles of the software development lifecycle including developers, testers, architects, configuration analysts, site reliability engineers and release managers. If you are a new user you'll learn how to get started; if you are an experienced user you'll learn how to launch your project into a modern and mature DevOps enabled software development team.

Professional Sitecore Development offers comprehensive information for programmers learning the CMS and experienced Sitecore developers alike. This guidance can help your organization minimize implementation cost and time to web, increasing revenue while decreasing IT costs. With this book, you will learn how to implement solutions with Sitecore, how the Sitecore architecture enhances the ASP.NET development process, how to use Sitecore's extensive Application Programming Interfaces, and how to deploy the website. Professional Sitecore Development provides coverage on a range of topics including: Installing and configuring Sitecore Implementing an information architecture and transforming content into web pages Using the Sitecore security infrastructure, managing errors, and testing automatically Managing Sitecore projects, optimizing performance, and scaling Sitecore solutions Tips, tricks, and best practices for working with the CMS Extending Sitecore and integrating external systems, including coverage of configuration, events, pipelines, and Sitecore's user interface technology If you're looking for a solution for web content management, then Sitecore is your answer and this book will get you started using this valuable software today.

Prepare for Exam 70-414—and help demonstrate your real-world mastery of advanced server design, planning, and implementation. Designed for experienced, MCSA-certified professionals ready to advance their status—Exam Ref focuses on the critical-thinking and decision-making acumen needed for success at the MCSE level. Optimize your exam-prep by focusing on the expertise needed to: Manage and Maintain a Server Infrastructure Plan and Implement a Highly Available Enterprise Infrastructure Plan and Implement a Server Virtualization Infrastructure Design and Implement Identity and Access Solutions

Written by one of the leading experts in content managementsystems (CMS), this newly revised bestseller guides readers through the confusing-and often intimidating-task of building, im-

plementing, running, and managing a CMS Updated to cover recent developments in online delivery systems, as well as XML and related technologies Reflects valuable input from CMS users who attended the author's workshops, conferences, and courses An essential reference showing anyone involved in information delivery systems how to plan and implement a system that can handle large amounts of information and help achieve an organization's overall goals

Libraries have always played a special role in times of disaster by continuing to provide crucial information and services. The Stafford Act of 2011, a federal government directive, designates libraries as among the temporary facilities delivering essential services, making a Continuity of Operations Plan imperative for libraries. Peppared with informative first-person narratives from librarians recounting emergency situations, Halsted, Clifton, and Wilson cover such topics as: An eight-step approach to developing a risk assessment plan How to draft a one-page service continuity plan Information on how to use mobile devices and social media effectively in times of disaster Sample disaster plans, along with model exercises, manuals and customizable communication-s Published in cooperation with the Medical Library Association (MLA), this nuts-and-bolts resource will enable libraries of all kinds to do their best while planning for the worst.

"In recent years the Three Rivers region of Belize and Guatemala has been the site of some of the most intensive archaeological research in the Maya Lowlands, providing a wealth of regional data. This volume brings together articles reporting on findings and interpretations of the Programme for Belize Archaeological Project that range over a 10- to 12-year period and that shed new light on how ecology, economy, and political order developed in the ancient past."

What people are saying about C# 4.0 in a Nutshell "C# 4.0 in a Nutshell is one of the few books I keep on my desk as a quick reference. It is a book I recommend."--Scott Guthrie, Corporate Vice President, .NET Developer Platform, Microsoft Corporation "A must-read for a concise but thorough examination of the parallel programming features in the .NET Framework 4."--Stephen Toub, Parallel Computing Platform Program Manager, Microsoft "This wonderful book is a great reference for developers of all levels."--Chris Burrows, C# Compiler Team, Microsoft When you have questions about how to use C# 4.0 or the .NET CLR, this highly acclaimed bestseller has precisely the answers you need. Uniquely organized around concepts and use cases, this fourth edition includes in-depth coverage of new C# topics such as parallel programming, code contracts, dynamic programming, security, and COM interoperability. You'll also find updated information on LINQ, including examples that work with both LINQ to SQL and Entity Framework. This book has all the essential details to keep you on track with C# 4.0. Get up to speed on C# language basics, including syntax, types, and variables Explore advanced topics such as unsafe code and preprocessor directives Learn C# 4.0 features such as dynamic binding, type parameter variance, and optional and named parameters Work with .NET 4's rich set of features for parallel programming, code contracts, and the code security model Learn .NET topics, including XML, collections, I/O and networking, memory management, reflection, attributes, security, and native interoperability

Ancient Maya Commerce presents nearly two decades of multidisciplinary research at Chunchucmil, Yucatan, Mexico—a thriving Classic period Maya center organized around commercial exchange rather than agriculture. An urban center without a king and unable to sustain agrarian independence, Chunchucmil is a rare example of a Maya city in which economics, not political rituals, served as the engine of growth. Trade was the *raison d'être*

of the city itself. Using a variety of evidence—archaeological, botanical, geomorphological, and soil-based—contributors show how the city was a major center for both short- and long-distance trade, integrating the Guatemalan highlands, the Gulf of Mexico, and the interior of the northern Maya lowlands. By placing Chunchucmil into the broader context of emerging research at other Maya cities, the book reorients the understanding of ancient Maya economies. The book is accompanied by a highly detailed digital map that reveals the dense population of the city and the hundreds of streets its inhabitants constructed to make the city navigable, shifting the knowledge of urbanism among the ancient Maya. Ancient Maya Commerce is a pioneering, thoroughly documented case study of a premodern market center and makes a strong case for the importance of early market economies in the Maya region. It will be a valuable addition to the literature for Mayanists, Mesoamericanists, economic anthropologists, and environmental archaeologists. Contributors: Anthony P. Andrews, Traci Ardren, Sheryl Luzzadder-Beach, Timothy Beach, Chelsea Blackmore, Tara Bond-Freeman, Bruce H. Dahlin, Patrice Farrell, David Hixson, Socorro Jimenez, Justin Lowry, Aline Magnoni, Eugenia Mansell, Daniel E. Mazeau, Travis Stanton, Ryan V. Sweetwood, Richard E. Terry

The Past in the Present deals with the complexities in the operation and management of living heritage sites. It presents a new interpretation of such sites based on the concept of continuity, and its evolution to the present. It is demonstrated that the current theoretical framework and practice of conservation, as best epitomised in a values-based approach and the World Heritage concept, is based on discontinuity created between the monuments (considered to belong to the past) and the people of the present, thus seemingly unable to embrace living heritage sites. From this position, the study suggests an innovative approach that views communities and sites as an inseparable entity: a Living Heritage Approach. This approach brings a new insight into key concepts such as authenticity and sustainable development. Through the use of the monastic site of Meteora, Greece, as a case study, the discussion generated aims to shift the focus of conservation from 'preservation' towards a continual process of 'creation' in an ongoing present, attempting to change the way heritage is perceived, protected and, more importantly, further created. "The Past in the Present is an important and much-needed contribution to the debate about living heritage – and it is particularly significant in the context of the heritage of the past in the modern world. Anyone concerned with how the past is, or should be, integrated within modern lives and identities will need to read this book." – Leslie Brubaker, Director, Centre for Byzantine, Ottoman and Modern Greek Studies, University of Birmingham, UK. "This interesting and thoroughly researched book by Ioannis Poullos is a useful tool in promoting the Living Heritage Approach, and provides a sound theoretical basis for future work. Living Heritage Approach is a paradigm shift that suggests a new way of addressing conservation for our heritage. ICCROM is proud to have introduced this approach, also with the contribution of Ioannis." – Gamini Wijesuriya, Project Manager, ICCROM.

This book is open access under a CC BY-NC 2.5 license. This book provides an unprecedented synthesis of the current status of scientific and management knowledge regarding global rangelands and the major challenges that confront them. It has been organized around three major themes. The first summarizes the conceptual advances that have occurred in the rangeland profession. The second addresses the implications of these conceptual advances to management and policy. The third assesses several major challenges confronting global rangelands in the 21st century. This book will compliment applied range management textbooks by describing the conceptual foundation on which the ran-

geland profession is based. It has been written to be accessible to a broad audience, including ecosystem managers, educators, students and policy makers. The content is founded on the collective experience, knowledge and commitment of 80 authors who have worked in rangelands throughout the world. Their collective contributions indicate that a more comprehensive framework is necessary to address the complex challenges confronting global rangelands. Rangelands represent adaptive social-ecological systems, in which societal values, organizations and capacities are of equal importance to, and interact with, those of ecological processes. A more comprehensive framework for rangeland systems may enable management agencies, and educational, research and policy making organizations to more effectively assess complex problems and develop appropriate solutions.

Without established design patterns to guide them, developers have had to build distributed systems from scratch, and most of these systems are very unique indeed. Today, the increasing use of containers has paved the way for core distributed system pat-

terns and reusable containerized components. This practical guide presents a collection of repeatable, generic patterns to help make the development of reliable distributed systems far more approachable and efficient. Author Brendan Burns—Director of Engineering at Microsoft Azure—demonstrates how you can adapt existing software design patterns for designing and building reliable distributed applications. Systems engineers and application developers will learn how these long-established patterns provide a common language and framework for dramatically increasing the quality of your system. Understand how patterns and reusable components enable the rapid development of reliable distributed systems Use the side-car, adapter, and ambassador patterns to split your application into a group of containers on a single machine Explore loosely coupled multi-node distributed patterns for replication, scaling, and communication between the components Learn distributed system patterns for large-scale batch data processing covering work-queues, event-based processing, and coordinated workflows