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*Microsoft Commerce Server 2002 provides a platform for the rapid development of e-Commerce web sites. Using the design patterns found in the sample sites and lessons learned from years of field experience, this book defines a path for mapping an e-commerce project. We are delighted to introduce the proceedings of the 13th edition of the 2020 European Alliance for Innovation (EAI) International Conference on Mobile Multimedia Communications (MOBIMEDIA). This conference has brought researchers, developers and practitioners around the world who are leveraging and developing multimedia coding, mobile communications and networking fields. Developing and leveraging multimedia coding, mobile communications and networking fields requires adopting an interdisciplinary approach where multimedia, networking and physical layer issues are addressed jointly. Basic theories, key technologies and Artificial Intelligence for next-generations wireless communications?intelligent technologies for subspace*

*learning and clustering of high-dimensional data, security and safety, communication networks and coding analysis, electromagnetic and media access control, D2D and IoT, multimedia platform and analysis, new energy and smart city, vision and images analysis, systems and applications, case studies and prediction and educational application are research challenges that need to be carefully examined when designing new mobile media architectures. We also need to put a great effort in designing applications that take into account the way the user perceives the overall quality of the provided service. Within this scope, the MOBIMEDIA 2020 was intended to provide a unique international forum for researchers from industry and academia to study new technologies, applications and standards. Original unpublished contributions are solicited that can improve the knowledge and practice in the integrated design of efficient technologies and the relevant provision of advanced mobile multimedia applications. Every raindrop, lake, underground river and glacier is part of a single global well. Discover the many ways water is used around the world, and what kids can do to protect it. Learn how jQuery can make your Web page or blog stand out from the crowd! jQuery is free, open source software that allows you to extend and customize Joomla!, Drupal, AJAX, and WordPress via plug-ins. Assuming no previous programming experience, Lynn Beighley takes you through the basics of jQuery from the very start. You'll discover how the jQuery library separates itself from other JavaScript libraries through its ease of use, compactness, and friendliness if you're a beginner programmer. Written in the easy-to-understand style of the For Dummies brand, this book*

*demonstrates how you can add unique and exciting interactivity to a Web site or WordPress blog, including photo browsers, menus, tab-based navigation, sliding sidepanels, slideshows, transition effects, fade effects, Twitter feeds, and much, much more! Walks you through the capabilities of jQuery, the number one open source JavaScript library that enables you to provide interactivity on a Web site or blog Helps you understand DOM (Document Object Model) scripting, applying CSS classes via JQuery, and adding in special effects and jQuery plug-ins to your site Shows you how to create dazzling special effects on your site, including fades, slide shows, sliding panels, tabbed navigation, and more Explains how to add customized Twitter feeds, RSS feeds to aggregate content on your site, or add a photo browser to a site or blog Introduces ways to create jQuery plug-ins for WordPress, Drupal, and more If you have queries about how you can make your blog or Web site stand apart from the crowd, jQuery For Dummies is the book for you! This 4-volume set, IFIP AICT 689-692, constitutes the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2023, held in Trondheim, Norway, during September 17–21, 2023. The 213 full papers presented in these volumes were carefully reviewed and selected from a total of 224 submissions. They were organized in topical sections as follows: Part I : Lean Management in the Industry 4.0 Era; Crossroads and Paradoxes in the Digital Lean Manufacturing World; Digital Transformation Approaches in Production Management; Managing Digitalization of Production Systems; Workforce Evolutionary Pathways in Smart Manufacturing Systems; Next*

*Generation Human-Centered Manufacturing and Logistics Systems for the Operator 5.0; and SME 5.0: Exploring Pathways to the Next Level of Intelligent, Sustainable, and Human-Centered SMEs. Part II : Digitally Enabled and Sustainable Service and Operations Management in PSS Lifecycle; Exploring Digital Servitization in Manufacturing; Everything-as-a-Service (XaaS) Business Models in the Manufacturing Industry; Digital Twin Concepts in Production and Services; Experiential Learning in Engineering Education; Lean in Healthcare; Additive Manufacturing in Operations and Supply Chain Management; and Applications of Artificial Intelligence in Manufacturing. Part III : Towards Next-Generation Production and SCM in Yard and Construction Industries; Transforming Engineer-to-Order Projects, Supply Chains and Ecosystems; Modelling Supply Chain and Production Systems; Advances in Dynamic Scheduling Technologies for Smart Manufacturing; and Smart Production Planning and Control. Part IV : Circular Manufacturing and Industrial Eco-Efficiency; Smart Manufacturing to Support Circular Economy; Product Information Management and Extended Producer Responsibility; Product and Asset Life Cycle Management for Sustainable and Resilient Manufacturing Systems; Sustainable Mass Customization in the Era of Industry 5.0; Food and Bio-Manufacturing; Battery Production Development and Management; Operations and SCM in Energy-Intensive Production for a Sustainable Future; and Resilience Management in Supply Chains. From the creators of A Day in the Life of a Poo, a Gnu, and You comes an encyclopedic glance at all things outer space and makes a*

*hilarious and informative guide for curious young readers. Blast off for a day in the life of space and the people (and animals!) who have explored it. From hilarious comics to secret diaries and detailed diagrams, there are tons of things to discover and fantastic facts to learn. Written by a trio of experts, this is the definitive reference on the Apollo spacecraft and lunar modules. It traces the design of the vehicles, their development, and their operation in space. More than 100 photographs and illustrations highlight the text, which begins with NASA's origins and concludes with the triumphant Apollo 11 moon mission. After the IPS2 conferences in Cranfield and Linköping in 2009 and 2010 the 3rd CIRP International Conference on Industrial Product Service Systems (IPS2) 2011 takes place in Braunschweig, Germany. IPS2 itself is defined as “an integrated industrial product and service offering that delivers value in use”. The customers expect comprehensive solutions, which are adapted to their individual needs. IPS2 offers the possibility to stand out from competition and for long-term customer loyalty. Particularly in times of economic crisis it becomes apparent which producing companies understand to satisfy the needs and requirements of their customers. Especially in this relatively new domain IPS2 it will be important to keep track of the whole context and to seek cooperation with other research fields and disciplines. The 3rd CIRP International Conference on Industrial Product Service Systems (IPS2) 2011 serves as a platform for such collaborations and the discussion of new scientific ideas. These consolidated guidelines on HIV prevention, testing, treatment, service delivery and monitoring bring together existing and new*

*clinical and programmatic recommendations across different ages, populations and settings, bringing together all relevant WHO guidance on HIV produced since 2016. It serves as an update to the previous edition of the consolidated guidelines on HIV. These guidelines continue to be structured along the continuum of HIV care. Information on new combination prevention approaches, HIV testing, ARV regimens and treatment monitoring are included. There is a new chapter on advanced HIV disease that integrates updated guidance on the management of important HIV comorbidities, including cryptococcal disease, histoplasmosis and tuberculosis. The chapter on general HIV care, contains a new section on palliative care and pain management, and up to date information on treatment of several neglected tropical diseases, such as visceral leishmaniasis and Buruli ulcer. New recommendations for screening and treating of cervical pre-cancer lesions in women living with HIV are also addressed in this chapter. Guidance on service delivery was expanded to help the implementation and strengthening the HIV care cascade. Importantly, this guidance emphasizes the need for differentiated approaches to care for people who are established on ART, such as reduced frequency of clinic visits, use of multi-month drug dispensing and implementation of community ART distribution. The adoption of these efficiencies is essential to improve the quality of care of people receiving treatment and reduce the burden on health facilities, particularly in resource limited settings. The 4th International Conference on Electronic, Communications and Networks (CECNet2014) inherits the fruitfulness of the past three conferences and lays a*

*foundation for the forthcoming next year in Shanghai. CECNet2014 was hosted by Hubei University of Science and Technology, China, with the main objective of providing a comprehensive global forum. Perspectives and identity are typically reinforced at a young age, giving teachers the responsibility of selecting reading material that could potentially change how the child sees the world. This is the importance of sharing diverse literature with today's children and young adults, which introduces them to texts that deal with religion, gender identities, racial identities, socioeconomic conditions, etc. Teachers and librarians play significant roles in placing diverse books in the hands of young readers. However, to achieve the goal of increasing young people's access to diverse books, educators and librarians must receive quality instruction on this topic within their university preparation programs. The Handbook of Research on Teaching Diverse Youth Literature to Pre-Service Professionals is a comprehensive reference source that curates promising practices that teachers and librarians are currently applying to prepare aspiring teachers and librarians for sharing and teaching diverse youth literature. Given the importance of sharing diverse books with today's young people, university educators must be aware of engaging and effective methods for teaching diverse literature to pre-service teachers and librarians. Covering topics such as syllabus development, diversity, social justice, and activity planning, this text is essential for university-level teacher educators, library educators who prepare pre-service teachers and librarians, university educators, faculty, adjunct instructors, researchers, and students. Summary Isomorphic Web Applications teaches*

*you to build production-quality web apps using isomorphic architecture. Designed for working developers, this book offers examples in relevant frameworks like React, Redux, Angular, Ember, and webpack. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Build secure web apps that perform beautifully with high, low, or no bandwidth.*

*Isomorphic web apps employ a pattern that exploits the full stack, storing data locally and minimizing server hits. They render flawlessly, maximize SEO, and offer opportunities to share code and libraries between client and server. About the Book Isomorphic Web Applications teaches you to build production-quality web apps using isomorphic architecture. You'll learn to create and render views for both server and browser, optimize local storage, streamline server interactions, and handle data serialization. Designed for working developers, this book offers examples in relevant frameworks like React, Redux, Angular, Ember, and webpack. You'll also explore unique debugging and testing techniques and master specific SEO skills. What's Inside Controlling browser and server user sessions Combining server-rendered and SPA architectures Building best-practice React applications Debugging and testing About the Reader To benefit from this book, readers need to know JavaScript, HTML5, and a framework of their choice, including React and Angular. About the Author Elyse Kolker Gordon runs the growth engineering team at Strava. Previously, she was director of web engineering at Vevo, where she regularly solved challenges with isomorphic apps. Table of Contents PART 1 - FIRST STEPS Introduction to isomorphic*

*web application architecture A sample isomorphic app PART 2 - ISOMORPHIC APP BASICS React overview Applying React Tools: webpack and Babel Redux PART 3 - ISOMORPHIC ARCHITECTURE Building the server Isomorphic view rendering Testing and debugging Handling server/browser differences 203 Optimizing for production PART 4 - APPLYING ISOMORPHIC ARCHITECTURE WITH OTHER TOOLS Other frameworks: implementing isomorphic without React Where to go from here*

*Responding to the Oppression of Addiction brings together the voices of over 40 academics and social work practitioners from across Canada to provide a diverse and multidimensional perspective to the study of addiction. This thoroughly updated edition features eight new chapters and streamlines the content of the previous editions, with chapters condensed and combined to create a more accessible text. The fourth edition features new content on themes such as residential schools, prevention initiatives, special needs of different populations, policy perspectives framed within an anti-oppression standpoint, cognitive behavioral therapy, and the emerging topic of problem gambling. Returning chapters have been updated, with contributors providing more in-depth examinations of trauma-informed approaches. The entire volume has a strengthened anti-oppressive framework, on both an overarching and by-chapter level. This celebrated and varied collection is an indispensable resource for upper-level students, graduate students, and practitioners working in the fields of social work, addictions studies, and the helping professions. FEATURES: - Thoroughly updated chapter-by-chapter content grounded in an*

*anti-oppressive framework with deeper exploration of trauma-informed approaches - Provides an authoritative analysis of the practices and policies that contribute to the construction of the meaning of addiction through a Canadian lens*

*Space Activity: Impact on Science and Technology contains the proceedings of the 24th International Astronautical Congress held in the USSR on October 7-13, 1973. Contributors focus on the contribution of space research to the development of science and technology, including biology and medicine. This text begins with a discussion on the role played by Soviet automatic vehicles in the progress of space automatics and control theory. The discussion then turns to the problems of space technology and their implications for science and technology, industrial applications of aerospace technology, and development of liquid-propellant rocket engineering technology in the USSR. The chapters that follow explore the contribution of space medicine to public health; the role of astronautics in the development of methods of celestial mechanics; the flight performance of the unmanned Skylab space station; and remote sensing of the environment and earth's resources studies from Soviet manned spacecraft. The book concludes with an appraisal of international standards for model rocket engines. This book will be of interest to students of astronomy as well as researchers and practitioners working in the field of space exploration and research. This book constitutes revised and selected papers from the scientific satellite events held in conjunction with the 18th International Conference on Service-Oriented Computing, ICSOC 2020. The conference was held virtually during December 14-17, 2020. A total of 125 submissions were received*

*for the satellite events. The volume includes 9 papers from the PhD Symposium Track, 4 papers from the Demonstration Track, and 45 papers from the following workshops: International Workshop on Artificial Intelligence for IT Operations (AIOps) International Workshop on Cyber Forensics and Threat Investigations Challenges in Emerging Infrastructures (CFTIC 2020) 2nd Workshop on Smart Data Integration and Processing (STRAPS 2020) International Workshop on AI-enabled Process Automation (AI-PA 2020) International Workshop on Artificial Intelligence in the IoT Security Services (AI-IOTS 2020) This is the eBook edition of the CCNP Security Cisco Secure Firewall and Intrusion Prevention System Official Cert Guide. This eBook does not include access to the companion website with practice exam that comes with the print edition. Trust the best-selling Official Cert Guide series from Cisco Press to help you learn, prepare, and practice for exam success. They are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam, and to excel in your day-to-day security work. \* Master the topics on the CCNP Security concentration exam that focuses on the Cisco Secure Firewall and IPS (formerly known as Cisco Firepower) \* Assess your knowledge with chapter-opening quizzes \* Review key concepts with exam preparation tasks CCNP Security Cisco Secure Firewall and Intrusion Prevention System Official Cert Guide presents you with an organized test preparation routine through the use of proven series elements and techniques. “Do I Know This Already?” quizzes open each chapter and enable you to decide how much time you need to spend on each section.*

*Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. CCNP Security Cisco Secure Firewall and Intrusion Prevention System Official Cert Guide specifically covers the objectives for the CCNP Security concentration exam that focuses on the Cisco Secure Firewall and IPS (formerly known as Cisco Firepower). Long-time Cisco security insider Nazmul Rajib shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. Well regarded for its level of detail, assessment features, comprehensive design scenarios, and challenging review questions and exercises, this official study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. This official study guide helps you master the topics on the CCNP Security concentration exam that focuses on the Cisco Secure Firewall and IPS (formerly known as Cisco Firepower). Use it to deepen your knowledge of \* Configurations \* Integrations \* Deployments \* Management \* Troubleshooting, and more This volume comprises the 6th IFIP International Conference on Intelligent Information Processing. As the world proceeds quickly into the Information Age, it encounters both successes and challenges, and it is well recognized nowadays that intelligent information processing provides the key to the Information Age and to mastering many of these challenges. Intelligent information processing supports the most advanced productive tools that are said to be able to change human life*

*and the world itself. However, the path is never a straight one and every new technology brings with it a spate of new research problems to be tackled by researchers; as a result we are not running out of topics; rather the demand is ever increasing. This conference provides a forum for engineers and scientists in academia and industry to present their latest research findings in all aspects of intelligent information processing. This is the 6th IFIP International Conference on Intelligent Information Processing. We received more than 50 papers, of which 35 papers are included in this program as regular papers and 4 as short papers. We are grateful for the dedicated work of both the authors and the referees, and we hope these proceedings will continue to bear fruit over the years to come. All papers submitted were reviewed by two referees. A conference such as this cannot succeed without help from many individuals who contributed their valuable time and expertise. Lenovo System x® and BladeCenter® servers and Lenovo Flex System™ compute nodes help to deliver a dynamic infrastructure that provides leadership quality and service that you can trust. This document (simply known as xREF) is a quick reference guide to the specifications of the currently available models of each System x and BladeCenter server. Each page can be used in a stand-alone format and provides a dense and comprehensive summary of the features of that particular server model. Links to the related Product Guide are also provided for more information. An easy-to-remember link you can use to share this guide: <http://lenovopress.com/xref> Also available is xREF for Products Withdrawn Prior to 2012, a document that contains xREF sheets of System x, BladeCenter, and xSeries*

*servers, and IntelliStation workstations that were withdrawn from marketing prior to 2012. Changes in the May 18 update: Added the Flex System Carrier-Grade Chassis See the Summary of changes in the document for a complete change history. Software development is being revolutionized. The heavy-weight processes of the 1980s and 1990s are being replaced by light-weight, so called agile processes. Agile processes move the focus of software development back to what really matters: running software. This is only made possible by accepting that software development is a creative job done by, with, and for individual human beings. For this reason, agile software development encourages interaction, communication, and fun. This was the focus of the Fifth International Conference on Extreme Programming and Agile Processes in Software Engineering which took place between June 6 and June 10, 2004 at the conference center in Garmisch-Partenkirchen at the foot of the Bavarian Alps near Munich, Germany. In this way the conference provided a unique forum for industry and academic professionals to discuss their needs and ideas for incorporating Extreme Programming and Agile Methodologies into their professional life under consideration of the human factor. We celebrated this year's conference by reflecting on what we had achieved in the last half decade and we also focused on the challenges we will face in the near future. STEM (science, technology, engineering and mathematics) is a fairly new concept in American education. As separate subjects, science and math have been around for a long time but have rarely been taught as a seamless unit of skills; rather as discreet content areas. This is not how the real world outside of the classroom functions however; in actual*

*research laboratories scientists infuse their science with math, and their math with science, and along with technology and engineering they solve real life problems. In practice you cannot separate the various fields, as you need all of them in order to discover the underpinnings of the natural world, cure a disease, or solve a problem with the space rover. The American future depends on a scientifically literate workforce, armed with knowledge about the laws and theories of science, based on empirical facts instead of beliefs. In addition, there is a shortage of graduates in STEM related disciplines. Economic data show that 1 million additional STEM graduates will be needed over the next decade to fill America's economic demand. STEM based jobs are expected to grow 17% in the next 10 years, outpacing the overall job growth of 10%. If teachers across America were trained with fundamental and impending scientific concepts in their science-methods courses at the university level, scientific literacy can only dramatically improve. Nanoscience is one such concept; as it is multidisciplinary in nature and is regarded as the basis for innovated technologies in many fields. The authors of this book seek to provide pre-service and in-service science teachers with high-quality STEM modules, with which to create lesson plans and problem-based lessons to use in their future classrooms, both at the elementary and secondary level. Nanoscience was chosen since its applications reaches across virtually every scientific field; from biology to physics and for that matter all STEM domains. Business process models are abstractions of concrete operational procedures that occur in the daily business of organizations. To cope with the complexity of these models,*

*business process model abstraction has been introduced recently. Its goal is to derive from a detailed process model several abstract models that provide a high-level understanding of the process. While techniques for constructing abstract models are reported in the literature, little is known about the relationships between process instances and abstract models. In this paper we show how the state of an abstract activity can be calculated from the states of related, detailed process activities as they happen. The approach uses activity state propagation. With state uniqueness and state transition correctness we introduce formal properties that improve the understanding of state propagation. Algorithms to check these properties are devised. Finally, we use behavioral profiles to identify and classify behavioral inconsistencies in abstract process models that might occur, once activity state propagation is used. This book is devoted to the customization design of product/service system (PSS), making use of a systematic design process and a number of methods, especially Industrial Customer Activity Cycle Analysis, Service Quality Function Deployment, Service Function and Attribute Analysis, Modified Service Blueprint, Multi-Objective Optimization and Multi-Criteria Recommendation Method. The book is especially valuable in manipulating the problems of PSS requirements analysis, design conflict, design reuse and proactively response to customer. The methods in the book facilitate modular design of customized solutions and enhance PSS design efficiency. Presenting case studies, this book helps researchers and practitioners to understand the customization process and methods in the early development of PSS. Discover places where*

*a day is longer than a year, where hailstones are made of diamonds, and where a mountain looms twice the size of Everest. These and more are all to be found in The Planets. The Sun's gravity holds in thrall eight planets, each with an entourage of moons, as well as dwarf planets, asteroids, and comets. The Planets takes you on a dazzling visual tour. From the Solar System's fiery heart, travel to rocky worlds such as tiny Mercury scorched by the Sun. Then witness Venus swathed in a sulfurous haze, and go to the outer reaches to visit planets such as gas giant Jupiter, which is 120 times the size of Earth. Using 3-D models and photography from NASA and the European Space Agency, The Planets describes each one, as well as the extraordinary endeavors of space exploration. Edited by space scientist Maggie Aderin-Pocock, this book is enthralling reading for everyone interested in astronomy and space exploration. As technology advances, so must our education system. Cloud computing serves as an ideal method for e-learning thanks to its flexibility, affordability, and availability. Cloud-based learning is especially dynamic in STEM education, as it can significantly lower the cost of building cumbersome computer labs while fostering engaged learning and collaboration among students. The Handbook of Research on Cloud-Based STEM Education for Improved Learning Outcomes prepares current and future instructors for exciting breakthroughs in STEM education driven by the advancement of cloud technologies. From virtual lab and app construction, to information sharing and course material distribution, this volume touches on a variety of topics related to the benefits and challenges of adopting cloud technologies in*

*the classroom. This book is an invaluable reference for educators, technology professionals, administrators, and education students who wish to become leaders in their fields. The book presents high-quality research papers presented at the 1st AUE International research conference, AUEIRC 2017, organized by the American University in the Emirates, held on November 15th-16th, 2017 in Dubai. The book is broadly divided into three sections: Media and Smart Cities, Creative Technologies and Innovation, and Security Risks and Strategic Challenges. The areas covered under these sections are cyber-psychology and digital forensics, cloud RAN architecture, networking functions virtualization, e-Governance and IoT semantic interoperability, ERP security, web-based application and problem-solving skills, smart technologies and advertising, smart technologies for smart cities, smart adaptable navigation systems, turbo codes for security key generation, technology advanced student learning and mobile devices, big data security and privacy, multi-channel buffer enabled technique, physiological signal acquisition in electro-oculography, blockchain and donation-based crowdfunding, smart city and framework development approach, news channel and media education, UAE foreign policy, China-GCC relations, diplomacy in the Internet age, intelligent cyber-security strategies, industry securities and strategic challenges, hybrid alliances and corporate security, security and privacy in smart cities, human computer interaction and e-learning solution, complexity of smart cities governance. The papers included in this book present insightful information on the most recent and relevant research, theories and practices in the field, which aim*

*for a sustainable future. The main thrust of this book is to acknowledge the technologies that the Bell-aerospace-company developed or refined. If certain programs incorporated technologies that were basically the same as other programs, then these same technology programs were not included in detail. Proceedings of the International Symposium on Highway Capacity, Karlsruhe, Germany, July 1991. Papers range widely from driving behavior and pedestrian to the numerical value of freeway capacity and transit capacity.*

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