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The Minor Tactics of Chess Dec 26 2021 In this contribution (originally published in 1894) to the literature of chess the authors have attempted to present the elements of a new theory of play. They have confined themselves, in the main, to the exposition of that part of the system which governs the opening of a game; by suggestion, however, if not by definite statement, they hope to have laid before the reader at least the spirit of the complete theory.Leibnitz pronounced chess an exact science, Petroff placed it on a level with the integral calculus, and the great Anderssen declared that its intricacies were more abstruse than the most profound mathematics; the authors of the new theory, agreeing with this trio of distinguished scholars, are tempted to go still further, and to assert, even at the peril of being considered somewhat visionary, not only that chess is a real science, but that it may not unreasonably be regarded as symbolical of the supreme science, the science of force. If this be true, the study of chess may profitably engage the attention of the ablest intellects. Those persons who make light of the wooden puppets that run over the surface of the chess board should recollect that a frame of wires strung with wooden balls was the familiar companion of the earlier mathematicians, that the science of logarithms was perfected by means of wooden pegs and a board pierced with holes, and that Napoleon won his victories before his battles were fought, by sticking his map of Europe full of pins surmounted by divers colored balls of sealing-wax.

App Store Portal Providing Point-and-click Deployment of Third-party Virtualized Network Functions Jul 21 2021 In one embodiment, a method comprises receiving by an apparatus, via a wide area network, a request for deployment of a selected one of available virtualized network services advertised by the apparatus, the request identifying a host service provider to deploy the one virtualized network service; identifying, by the apparatus, virtualized network functions required by the host service provider for implementation of the one virtualized network service, each virtualized network function having a corresponding and distinct virtualized container specifying attributes for defining execution of the corresponding virtualized network function within one or more physical machines of the host service provider; and sending to the host service provider, by the apparatus, a service container specifying instructions for deploying the one virtualized network service, the service container including instructions for deploying the virtualized network functions as interdependent for implementation of the one virtualized network service by the host service provider.

Cisco Unity Deployment and Solutions Guide Mar 05 2020 Cisco Unity Deployment and Solutions Guide shows you how to integrate Cisco Unity with Cisco IP-based communication solutions, including Cisco CallManager. Part I introduces you to the Cisco Unity architecture and teaches you about the Cisco Unity feature set. Part II helps you design and deploy a unified message solution with Cisco Unity, and Part III helps you manage and administer your solution by leveraging the tools within Cisco Unity. Cisco Unity Deployment and Solutions Guide teaches you all that you need to know about designing, deploying, and managing a sustainable, unified messaging solution.

Characterisation and Field Deployment of a Novel Quantitative Time-of-flight Aerosol Mass Spectrometer (ToF-AMS) Aug 22 2021

National Missile Defense (NMD) Deployment Oct 24 2021

Software Deployment, Updating, and Patching Dec 14 2020 The deployment of software patches can be just as challenging as building entirely new workstations. Training and support issues can haunt even the most successful software launch for months. Preparing for the rigors of software deployment includes not just implementing change, but training employees, predicting and mitigating pitfalls, and managin

Experiments in Small Rocket Deployment of 1000-foot-long Electrically Conducting Filaments Jan 27 2022 A method of rapidly deploying long, electrically conducting filaments of metallized mylar in the air at selected altitudes was designed and tested to a limited extent. The mylar, specially wound in tight rolls, is loaded into small rocket pods and pyrotechnically ejected at predetermined altitudes. Aerodynamic forces decelerate the rolls and cauuse them to unfurl rapidly. The technique is intended for use in evaluating and possibly reducing lightning hazards to aerospace vehicles. (Author)

I Miss You! Aug 02 2022 Military families face stressful times that are unique to the military lifestyle. One of the most challenging situations, both for children and parents, is when a father, mother, or sibling is deployed for military service and must be away from the home. Children often experience sadness, anger, fear, anxiety, and loneliness, and they do not understand their own feelings or know how to express them.This book is designed to help children especially, but also their parents, during such difficult times. Based on many years of experience as a social worker, who has assisted military families experiencing stress, author Beth Andrews has created an excellent tool for allowing children and their loved ones to deal with the many emotions caused by deployment. The text and illustrations encourage children to discuss their feelings and to draw their own pictures to express themselves. The accompanying parents' guide is designed to validate parents' feelings and give them ways to help their children cope.Guided by this approach, a parent or caregiver can help their children understand why one of their parents or a sibling had to leave home, identify their reactions, cope with their feelings in a positive way, be assured that they are not alone, and try new activities to help themselves adjust.At a time when military families are asked to make many sacrifices in the service of their country, this reassuring book will be a welcome resource.Beth Andrews, LCSW (Grand Junction, CO), is a social worker and currently a clinical supervisor at Colorado West Mental Health Center.

Military Readiness and the Rapid Deployment Joint Task Force (RDJTF) Aug 10 2020

Mastering Hyper-V Deployment Jun 19 2021 The only book to take an in-depth look at deploying Hyper-V Now in its second generation, the popular Hyper-V boasts technical advances that create even more dynamic systems than ever before. This unique resource serves an authoritative guide to deploying Windows Server 2008 R2 Hyper-V comprehensively. Step-by-step instructions demonstrate how to design a Hyper-V deployment, build a Hyper-V host environment, and design a management system with System Center Virtual Machine Manager 2008 R2. Features real-world examples that show you how to design a Hyper-V deployment, build a Hyper-V host environment, and design a management system Walks you through incorporating System Center Operations Manager 2008 R2, System Center Data Protection Manager 2010, and System Center Essentials 2010 Offers authoritative coverage of Hyper-V security, business continuity, and an array of VM roles, including domain controllers, Exchange Server, SQL Server, and System Center This in-depth guide is the ultimate resource for system administrators, engineers, and architects, and IT consultants deploying Hyper-V.

The TEA-21 ITS Deployment Program: Interim Report 2000 Jan 15 2021

Industrial Deployment of System Engineering Methods Jul 09 2020 A formal method is not the main engine of a development process, its contribution is to improve system dependability by motivating formalisation where useful. This book summarizes the results of the DEPLOY research project on engineering methods for dependable systems through the industrial deployment of formal methods in software development. The applications considered were in automotive, aerospace, railway, and enterprise information systems, and microprocessor design. The project introduced a formal method, Event-B, into several industrial organisations and built on the lessons learned to provide an ecosystem of better tools, documentation and support to help others to select and introduce rigorous systems engineering methods. The contributing authors report on these projects and the lessons learned. For the academic and research partners and the tool vendors, the project identified improvements required in the methods and supporting tools, while the industrial partners learned about the value of formal methods in general. A particular feature of the book is the frank assessment of the managerial and organisational challenges, the weaknesses in some current methods and supporting tools, and the ways in which they can be successfully overcome. The book will be of value to academic researchers, systems and software engineers developing critical systems, industrial managers, policymakers, and regulators.

Post-deployment nuclear arms control in Europe Feb 13 2021

Wireless Network Deployments Jun 27 2019 An important aspect of wireless networks is the deployment of their infrastructure. In this book, the Editors have invited a number of experts from industry to write on a variety of topics associated with deployment of digital wireless networks. The first part of the book consists of an overview of systems design and engineering integration, comparison of polarization and space diversity antenna systems, and the performance of deploying smart antenna architectures in cellular and PCS networks. The second part addresses deployment of CDMA networks, based on IS-95 standards. Here the authors discuss issues related to optimization of overlaid dual

model CDMA networks, embedding microcells to improve hot-spot capacity, and mitigation of intermodulation distortion in handsets. Part III deals with deployment of TDMA- based networks. The issues presented include developing hierarchical systems, reconfigurable transceivers, and deploying the GSM frequency hopping feature for enhancing existing traffic capacity. The last part, on Wireless Data Networks, is comprised of issues related to the performance of GPRS systems deployed as an upgrade on current networks and deployment of wireless LANs. Critical issues for deploying an IEEE 802.11-based WLAN are examined. Wireless Network Deployments provides practical engineering guidance for wireless and cellular engineers, researchers, technicians, and managers working in second and third generation digital wireless networks.

Deployment and Operation of Complex Software in Heterogeneous Execution Environments Mar 17 2021 This open access book provides an overview of the work developed within the SODALITE project, which aims at facilitating the deployment and operation of distributed software on top of heterogeneous infrastructures, including cloud, HPC and edge resources. The experts participating in the project describe how SODALITE works and how it can be exploited by end users. While multiple languages and tools are available in the literature to support DevOps teams in the automation of deployment and operation steps, still these activities require specific know-how and skills that cannot be found in average teams. The SODALITE framework tackles this problem by offering modelling and smart editing features to allow those we call Application Ops Experts to work without knowing low level details about the adopted, potentially heterogeneous, infrastructures. The framework offers also mechanisms to verify the quality of the defined models, generate the corresponding executable infrastructural code, automatically wrap application components within proper execution containers, orchestrate all activities concerned with deployment and operation of all system components, and support on-the-fly self-adaptation and refactoring.

Hands-On Kubernetes on Azure Jul 29 2019 Kick-start your DevOps career by learning how to effectively deploy Kubernetes on Azure in an easy, comprehensive, and fun way with hands-on coding tasks Key Features Understand the fundamentals of Docker and Kubernetes Learn to implement microservices architecture using the Kubernetes platform Discover how you can scale your application workloads in Azure Kubernetes Service (AKS) Book Description From managing versioning efficiently to improving security and portability, technologies such as Kubernetes and Docker have greatly helped cloud deployments and application development. Starting with an introduction to Docker, Kubernetes, and Azure Kubernetes Service (AKS), this book will guide you through deploying an AKS cluster in different ways. You'll then explore the Azure portal by deploying a sample guestbook application on AKS and installing complex Kubernetes apps using Helm. With the help of real-world examples, you'll also get to grips with scaling your application and cluster. As you advance, you'll understand how to overcome common challenges in AKS and secure your application with HTTPS and Azure AD (Active Directory). Finally, you'll explore serverless functions such as HTTP triggered Azure functions and queue triggered functions. By the end of this Kubernetes book, you'll be well-versed with the fundamentals of Azure Kubernetes Service and be able to deploy containerized workloads on Microsoft Azure with minimal management overhead. What you will learn Plan, configure, and run containerized applications in production Use Docker to build apps in containers and deploy them on Kubernetes Improve the configuration and deployment of apps on the Azure Cloud Store your container images securely with Azure Container Registry Install complex Kubernetes applications using Helm Integrate Kubernetes with multiple Azure PaaS services, such as databases, Event Hubs and Functions. Who this book is for This book is for aspiring DevOps professionals, system administrators, developers, and site reliability engineers looking to understand test and deployment processes and improve their efficiency. If you're new to working with containers and orchestration, you'll find this book useful.

WCDMA (UMTS) Deployment Handbook Mar 29 2022 A complete and practical guide to WCDMA/UMTS cellular network deployment. After introducing the network architecture of such a system, the WCDMA (UMTS) Deployment Handbook defines the coverage and capacity concepts associated with the dimensioning and design phases. Progressing to a discussion of the main system parameters associated with network optimization and detailing optimization techniques for the main services supported by UMTS, and includes the specifics of indoor deployment and HSDPA networks evolution. Covers all stages from planning to optimization with sufficient details as required on a day-to-day basis, and thorough reference information for the reader who wants to understand the concepts in more detail Relevant for daily tasks: The approach taken in this book is similar to the work flow of network planner and optimization engineers, allowing such personnel to easily find the relevant information Written by the company which made CDMA a household name: QUALCOMM was the first company to use CDMA technology for cellular application and is a technical leader in this domain Based on industry feedback: All the contributors to this book have been working in direct interaction with WCDMA operators, throughout the world, since the early days of WCDMA commercial deployment Looking to the future: This book addresses the next level of challenge that WCDMA operators will face – deployment of indoor systems and HSDPA Providing a complete introduction and reference guide to everything associated with the life cycle of a WCDMA/UMTS cellular network, from initial dimensioning through to the successful deployment of indoor solutions, or migration to HSDPA, this book is a must-have for network planners and optimization engineers as well as Telecommunication Engineering students.

Enabling Technologies for the Successful Deployment of Industry 4.0 Dec 02 2019 This book offers the latest research advances in the field of Industry 4.0, focusing on enabling technologies for its deployment in a comprehensive way. This book offers successful implementation of technologies such as artificial intelligence, augmented and virtual reality, autonomous and collaborative robots, cloud computing, and up-to-date guidelines. It investigates how the technologies and principles surrounding Industry 4.0 (e.g., interoperability, decentralized decisions, information transparency, etc.) serve as support for organizational routines and workers (and vice versa). Included are applications of technologies for different sectors and environments as well as for the supply chain management. It also offers a domestic and international mix of case studies that spotlight successes and failures. Features Provides a historical review of Industry 4.0 and its roots Discusses the applications of technologies in different sectors and environments (e.g., public vs. private) Presents key enabling technologies for successful implementation in any industrial and service environment Offers case studies of successes and failures to illustrate how to put theory into practice Investigates how technologies serve as support for organizational routines and workers

Deployment with Docker Sep 22 2021 A practical guide to rapidly and efficiently mastering Docker containers, along with tips and tricks learned in the field. About This Book Use Docker containers, horizontal node scaling, modern orchestration tools (Docker Swarm, Kubernetes, and Mesos) and Continuous Integration/Continuous Delivery to manage your infrastructure. Increase service density by turning often-idle machines into hosts for numerous Docker services. Learn what it takes to build a true container infrastructure that is scalable, reliable, and resilient in the face of increased complexities from using container infrastructures. Find out how to identify, debug, and mitigate most real-world, undocumented issues when deploying your own Docker infrastructure. Learn tips and tricks of the trade from existing Docker infrastructures running in production environments. Who This Book Is For This book is aimed at system administrators, developers, DevOps engineers, and software engineers who want to get concrete, hands-on experience deploying multi-tier web applications and containerized microservices using Docker. This book is also for anyone who has worked on deploying services in some fashion and wants to take their small-scale setups to the next level (or simply to learn more about the process). What You Will Learn Set up a working development environment and create a simple web service to demonstrate the basics Learn how to make your service more usable by adding a database and an app server to process logic Add resilience to your services by learning how to horizontally scale with a few containers on a single node Master layering isolation and messaging to simplify and harden the connectivity between containers Learn about numerous issues encountered at scale and their workarounds, from the kernel up to code versioning Automate the most important parts of your infrastructure with continuous integration In Detail Deploying Docker into production is considered to be one of the major pain points in developing large-scale infrastructures, and the documentation available online leaves a lot to be desired. With this book, you will learn everything you wanted to know to effectively scale your deployments globally and build a resilient, scalable, and containerized cloud platform for your own use. The book starts by introducing you to the containerization ecosystem with some concrete and easy-to-digest examples; after that, you will delve into examples of launching multiple instances of the same container. From there, you will cover orchestration, multi-node setups, volumes, and almost every relevant component of this new approach to deploying services. Using intertwined approaches, the book will cover battle-tested tooling, or issues likely to be encountered in real-world scenarios, in detail. You will also learn about the other supporting components required for a true PaaS deployment and discover common options to tie the whole infrastructure together. At the end of the book, you learn to build a small, but functional, PaaS (to appreciate the power of the containerized service approach) and continue to explore real-world approaches to implementing even larger global-scale services. Style and approach This in-depth learning guide shows you how to deploy your applications in production using Docker (from the basic steps to advanced concepts) and how to overcome challenges in Docker-based infrastructures. The book also covers practical use-cases in real-world examples, and provides tips and tricks on the various topics.

Mastering BEA WebLogic Server Jan 03 2020 Designed to show experienced developers how to become power developers with BEA WebLogic Covers BEA WebLogic Server version 8.1 and earlier versions A perfect companion to the bestselling book, Mastering Enterprise JavaBeans, Second Edition (0471-41711-4) Companion Web site includes technology updates and links to related sites

Deployment of Deep Decarbonization Technologies Sep 30 2019 "While progress has been made in the development of decarbonization

technologies, much work remains in scale-up and deployment. For decarbonization technologies to reach meaningful scale, real-world constraints, societal, economic, and political, must be considered. To identify the primary challenges and opportunities to deploying decarbonization technologies at scale across major sectors of the U.S. economy, the Board on Energy and Environmental Systems of the National Academies of Sciences, Engineering, and Medicine convened a workshop on July 22-23, 2019. In addition to technology-specific and sector-specific studies, the workshop considered the types of societal transformations required, as well as potential policy drivers for carbon dioxide emissions reductions. This publication summarizes the presentations and discussion of the workshop"--Publisher's description

Creation and Deployment of Smart Contracts On Ethereum Blockchain Feb 25 2022

Optical Access Networks and Advanced Photonics: Technologies and Deployment Strategies May 19 2021 "This book presents a comprehensive overview of emerging optical access network solutions to efficiently meet the anticipated growth in bandwidth demand"--Provided by publisher.

Design, Deployment and Performance of 4G-LTE Networks Nov 24 2021 This book provides an insight into the key practical aspects and best practice of 4G-LTE network design, performance, and deployment Design, Deployment and Performance of 4G-LTE Networks addresses the key practical aspects and best practice of 4G networks design, performance, and deployment. In addition, the book focuses on the end-to-end aspects of the LTE network architecture and different deployment scenarios of commercial LTE networks. It describes the air interface of LTE focusing on the access stratum protocol layers: PDCP, RLC, MAC, and Physical Layer. The air interface described in this book covers the concepts of LTE frame structure, downlink and uplink scheduling, and detailed illustrations of the data flow across the protocol layers. It describes the details of the optimization process including performance measurements and troubleshooting mechanisms in addition to demonstrating common issues and case studies based on actual field results. The book provides detailed performance analysis of key features/enhancements such as C-DRX for Smartphones battery saving, CSFB solution to support voice calls with LTE, and MIMO techniques. The book presents analysis of LTE coverage and link budgets alongside a detailed comparative analysis with HSPA+. Practical link budget examples are provided for data and VoLTE scenarios. Furthermore, the reader is provided with a detailed explanation of capacity dimensioning of the LTE systems. The LTE capacity analysis in this book is presented in a comparative manner with reference to the HSPA+ network to benchmark the LTE network capacity. The book describes the voice options for LTE including VoIP protocol stack, IMS Single Radio Voice Call Continuity (SRVCC). In addition, key VoLTE features are presented: Semi-persistent scheduling (SPS), TTI bundling, Quality of Service (QoS), VoIP with C-DRX, Robust Header Compression (RoHC), and VoLTE Vocoders and De-Jitter buffer. The book describes several LTE and LTE-A advanced features in the evolution from Release 8 to 10 including SON, eICIC, CA, CoMP, HetNet, Enhanced MIMO, Relays, and LBS. This book can be used as a reference for best practices in LTE networks design and deployment, performance analysis, and evolution strategy. Conveys the theoretical background of 4G-LTE networks Presents key aspects and best practice of 4G-LTE networks design and deployment Includes a realistic roadmap for evolution of deployed 3G/4G networks Addresses the practical aspects for designing and deploying commercial LTE networks. Analyzes LTE coverage and link budgets, including a detailed comparative analysis with HSPA+. References the best practices in LTE networks design and deployment, performance analysis, and evolution strategy Covers infrastructure-sharing scenarios for CAPEX and OPEX saving. Provides key practical aspects for supporting voice services over LTE, Written for all 4G engineers/designers working in networks design for operators, network deployment engineers, R&D engineers, telecom consulting firms, measurement/performance tools firms, deployment subcontractors, senior undergraduate students and graduate students interested in understanding the practical aspects of 4G-LTE networks as part of their classes, research, or projects.

SharePoint Deployment and Governance Using COBIT 4.1 Oct 12 2020

Domestic Deployment of the Armed Forces Sep 03 2022 Until recently, internal use of the armed forces has been generally regarded by the public, as well as academic commentators, as conduct to be expected of a military or autocratic regime, not a democratic government. There is however growing concern that the 'war on terror' has been used to condition public opinion to accept the internal deployment of the armed forces, including for broader industrial and political purposes. This book examines the national and international law, human rights and civil liberties issues involved in governments calling out troops to deal with civil unrest or terrorism. As the introduction of military call-out legislation has become an emerging global trend in the opening years of the 21st century, there is considerable and growing interest in the constitutional and related problems surrounding the deployment of military forces for domestic purposes. Examining the changes underway in six comparable countries, the United States, Canada, Britain, Germany, Japan and Australia, this book provides a review and analysis of this trend, including its implications for legal and political rights.

Deployment of a Tool for Measuring Freeway Safety Performance Feb 02 2020

Deployment of Data Services May 31 2022

Advances in Commercial Deployment of Spoken Dialog Systems Nov 05 2022 Advances in Commercial Deployment of Spoken Dialog Systems covers the peculiarities of commercial deployments of spoken dialog systems, from the tools, standards, and design principles to build them, the infrastructure to deploy them, techniques to monitor, evaluate, and analyze them, and, most importantly, effective strategies to adapt, tune, and optimize them. The book shows to what extent academic spoken dialog system research converges with real-world applications. This academic and practical synergy can be leveraged to build successful and robust spoken dialog applications that are useful when dealing with the dynamics of the ever-changing future user.

IBM i2 Integrated Law Enforcement: Technical Architecture and Deployment Guide Apr 17 2021 IBM® i2® Integrated Law Enforcement is an IBM Smarter Cities® solution that addresses the needs of modern-day law enforcement agencies. It is a solution framework that provides the individual capabilities of the products that comprise the solution and extended capabilities developed through the synergistic integration of those product components. As a framework, IBM i2 Integrated Law Enforcement allows for the continuous expansion of capabilities by putting together building blocks within the system and integrating with new, external systems. In doing so, an organization can respond and adapt to its changing needs. Simply stated, the configuration, integration, and implementation of IBM i2 Integrated Law Enforcement and its components provide the tools for more effective law enforcement. This IBM RedpaperTM publication explains the technology and the architecture on which the solution is built. Most importantly, this paper enables technical teams to install, configure, and deploy an instance of the i2 Integrated Law Enforcement solution using the product i2 Intelligent Law Enforcement V1.0.1. This paper is targeted to solution architects, system and deployment engineers, security specialists, data management experts, system analysts, software developers and test engineers, and system administrators. Readers of this paper will benefit from the IBM RedguideTM publication "Integrated Law Enforcement: A Holistic Approach to Solving Crime", REDP-5116.

An Analysis of the Bottlenecks affecting the production and deployment of maize seed in eastern and southern Africa. Apr 29 2022

Mechanisms and Deployment of Resistance in Trees to Insects Jul 01 2022 Mechanisms and Deployment of Resistance in Trees to Insects is a worldwide synthesis of tree resistance to insects. The contributions are by senior scientists and represent all the major forested regions of the world. The book constitutes a comprehensive treatment of the state of our knowledge on patterns of resistance by insect guilds and how this knowledge can be deployed to achieve the management of damaging forest insects. This book will serve as an essential reference book for all researchers and practitioners attempting to manage forest pests using genetic resistance.

The Status of Deployment of Data Services Oct 04 2022

Broadband Internet Deployment in Japan May 07 2020 In this book, the spectacular development of a digital telecommunications infrastructure in one of the world's most advanced industrial nations is being reviewed. Starting with the university network JUNET in 1984 the work covers the mobile Internet, wired access and backbone systems, all the way through broadband applications and today's residential broadband traffic. Japan has established one of the richest Internet environments and undertakes an aggressive R&D activity on both the New Generation Network "NGN" and the new Internet Protocol "IPv6".In 2007, it was reported that in the cellular phone system in Japan, the total volume of data traffic became larger than that of voice traffic. The telecommunication infrastructure is converging with the broadcasting infrastructure: 2011 is designated as the first year of the full digital age. Towards 2011, the following technical challenges are foreseen: the development and deployment of an end-to-end architecture on the existing complex IPv4 based Internet; development of a Japanese infrastructure, which is globally competitive and globally interoperable; development of new applications and new business models in the ubiquitous networking environment; development of Internet systems as a social infrastructure; integration with the real-space (i.e. integration of physical space and cyber space); NGN (Next Generation Network) and FMC (Fixed Mobile Convergence); and development and deployment of the unwired Internet environment. This work looks into the challenges and opportunities now faced: it is a must reading for communications and media experts, policy makers and the general public interested in the digital infrastructure.

Development and Deployment of Multiplayer Online Games, Vol. I Jun 07 2020 Trying to develop your own multiplayer online game can be overwhelming, especially as information on multiplayer specifics is very scarce. The nine-volume Development and Deployment of Multiplayer Games series is an attempt to summarize a body of knowledge that is known in the industry, but is rarely published, let alone published together. The series is highly praised by prominent representatives of the multiplayer gamedev industry. An "Early Praise" page within the book lists several testimonials by people from billion-dollar and/or AAA companies with job titles ranging from Managing Director and CTO to Backend Technical Director and Principal Software Engineer. Genres: From Social Games to MMOFPS, with Stock Exchanges In Between. Development and Deployment of Multiplayer Online Games aims to cover pretty much all the MOG genres – ranging from social games to MMORPGs

and MMOFPS. While there are certainly differences between the genres, around 80% of the discussed concepts apply across the board. Level: Intermediate+. This series is not trying to teach very basics of the programming (and is not a book to copy-paste your MOG from). Rather, it is intended for those intermediate developers who want to progress into senior ones, and all the way up to CTOs and architects. In particular, there is no explanation of what event-driven programming is about, what the difference is between optimistic locking and pessimistic locking, why do you need a source control system, and so on. Instead, there will be discussions on how the concept of futures fits into event-driven programming, when the use of optimistic locking makes sense for games, and how to use source control in the presence of unmergeable files. This Volume: Vol. I Vol. I starts Part ARCH(itecture), and includes three Chapters. Chapter 1 discusses Game Design Document (GDD) – mostly concentrating on its multiplayer specifics of GDDs. Chapter 2 explores the all-important aspects of cheating – which is virtually non-existent in single-player games and games between friends, but plays an enormous role in multiplayer games; the resulting analysis leads to Authoritative Server architectures (note that discussion on implementing anti-cheating measures is much longer than it is possible to fit into Vol. I, and will take the whole Vol. VIII). The largest chapter of Vol. I, Chapter 3, is dedicated to typical multiplayer communication flows. Along the course of this discussion, it will cover lots of different topics, including such different things as Client-Side Prediction, Low-Latency Compressible State Sync, Lag Compensation and its dangers, and Inter-DB Async Transfer with Transactional Integrity

 5G Mobile Core Network Aug 29 2019 Get up to speed on 5G and prepare for the roll out of the next generation of mobile technology. The book begins with an introduction to 5G and the advanced features of 5G networks, where you'll see what makes it bigger, better, and faster. You will learn 5G NSA and SA packet core design along with some design challenges, taking a practical approach towards design and deployment. Next, you will understand the testing of the 5G packet core and how to automate it. The book concludes with some advanced service provider strategies, including architectural considerations for service providers to enhance their network and provide services to non-public 5G networks. 5G Mobile Core Network is intended for those who wish to understand 5G, and also for those who work extensively in a service provider environment either as operators or as vendors performing activities such as network design, deployment, testing, and automation of the network. By the end of this book you will be able to understand the benefits in terms of CAPEX and OPEX while considering one design over another. Consulting engineers will be able to evaluate the design options in terms of 5G use cases, the scale of deployment, performance, efficiency, latency, and other key considerations. What You Will Learn Understand the life cycle of a deployment right from pre-deployment phase to post-deployment phase See use cases of 5G and the various options to design, implement, and deploy them Examine the deployment of 5G networks to large-scale service providers Discover the MVNO/MVNE strategies that a service provider can implement in 5G Who This Book Is For Anyone who is curious about 5G and wants to learn more about the technology.