

Smart Grid Infrastructure Networking

Communication Networks for Smart Grids Grid Networks Communication and Networking in Smart Grids Grid Computing Networking and Information Technology Research and Development Oracle Exadata Recipes The Handbook of Computer Networks, Distributed Networks, Network Planning, Control, Management, and New Trends and Applications Grid Computing Network Architectures, Management, and Applications Smart Grid Infrastructure & Networking Grid Computing Grid and Cloud Computing Ambient Intelligence, Wireless Networking, and Ubiquitous Computing Smart Grid Communication Infrastructures Security and Privacy in Smart Grids Oracle Database 11g Oracle Real Application Clusters Handbook, 2nd Edition Oracle Database 12c Release 2 Real Application Clusters Handbook: Concepts, Administration, Tuning & Troubleshooting Active Networks Telecommunication Networks for the Smart Grid Towards a Network of Atmospheric Cherenkov Detectors VII Kenneth C. Budka Franco Travostino Yang Xiao Nikolaos P. Preve National Science and Technology Council (U.S.). Interagency Working Group on Information Technology Research and Development John Clarke Hossein Bidgoli Fran Berman Krzysztof Iniewski Lizhe Wang Katarina Stanoevska Athanasios Vasilakos Feng Ye Yang Xiao K Gopalakrishnan K. Gopalakrishnan Alberto Sendin Bernard Degrange

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this book presents an application centric approach to the development of smart grid communication architecture the coverage includes in depth reviews of such cutting edge applications as advanced metering infrastructure distribution automation demand response and synchrophasors features examines a range of exciting

utility applications made possible through smart grid evolution describes the core edge network architecture for smart grids introducing the concept of wans and fans explains how the network design paradigm for smart grids differs from that for more established data networks and discusses network security in smart grids provides an overview of communication network technologies for wans and fans covering opgw plc and lte and mpls technology investigates secure data centric data management and data analytics for smart grids discusses the transformation of a network from conventional modes of utility operation to an integrated network based on the smart grid architecture framework

a book that bridges the gap between the communities of network and grid experts grid networks describes the convergence of advanced networking technologies and grid technologies with special focus on their symbiotic relationship and the resulting new opportunities grid technology is applicable to many implementations computational grids data grids service grids and instrumentation grids the authors cover a breadth of topics including recent research featuring both theoretical concepts and empirical results beginning with an overview of grid technologies an analysis of distinguishing use cases and architectural attributes and emerging standards travostino et al discuss new directions in multiple networking technologies that are enabling enhanced capabilities for grids an appendix also provides an overview of experimental research test beds and prototype implementations these topics will enable network experts to design networks to best match grid requirements while grid experts will learn how to effectively utilize network resources grid networks enabling grids with advanced communication technology bridges the gap between the communities of network and grid experts covers new network requirements posed by the grid and the paradigm shifts prompted by grid applications discusses basic architectural concepts and directions related to the integration of grid and networking technologies especially those that elevate network resources to first class entities within grid environments details new directions in networking technologies for the grid including network infrastructure management service provisioning high performance data transport performance monitoring reliability and network assisted service frameworks provides an overview of advanced research testbeds and innovative early implementations of emerging architecture and technology many communities will find this book an invaluable resource including engineers and product managers research scientists within academia industry and government agencies advanced students and faculty in distributed systems courses network and systems architects cios administrators of advanced networks application developers and providers of next generation distributed services

appropriate for researchers practitioners and students alike communication and networking in smart grids presents state of the art approaches and novel technologies for communication networks in smart grids it explains how contemporary grid networks are developed and deployed and presents a collection of cutting edge advances to help improve cu

this book presents research from many of the major projects involved in the emerging global grid infrastructure with a particular focus on the practical

advantages and applications of grid computing including real case studies the book provides an in depth study of grid technology for a wide range of different needs topics examines a remote instrumentation infrastructure and a methodology to support e science applications on e infrastructures describes the gems storage system and pipeline workflows for optimizing end to end performance in wide area networks investigates semantic grid system architecture social grid agents and monitoring platforms designed for large scale distributed systems explores job control using service level agreements introduces the composable services architecture for dynamic service provisioning and the semantically driven communication middleware platform phoenix discusses the phylogrid application and a numerical simulation performed using grid computing

oracle exadata recipes takes an example based problem solution approach in showing how to size install configure manage monitor optimize and migrate oracle database workloads on and to the oracle exadata database machine whether you re an oracle database administrator unix linux administrator storage administrator network administrator or oracle developer oracle exadata recipes provides effective and proven solutions to accomplish a wide variety of tasks on the exadata database machine you can feel confident using the reliable solutions that are demonstrated in this book in your enterprise exadata environment managing oracle exadata is unlike managing a traditional oracle database oracle s exadata database machine is a pre configured engineered system comprised of hardware and software built to deliver extreme performance for oracle database workloads exadata delivers extreme performance by offering an optimally balanced hardware infrastructure with fast components at each layer of the engineered technology stack as well as a unique set of oracle software features designed to leverage the high performing hardware infrastructure by reducing i o demands let oracle exadata recipes help you translate your existing oracle database knowledge into the exciting new growth area that is oracle exadata helps extend your oracle database skillset to the fast growing exadata platform presents information on managing exadata in a helpful example based format clearly explains unique exadata software and hardware features what you ll learn install and configure exadata manage your exadata hardware infrastructure monitor and troubleshoot performance issues manage smart scan and cell offload processing take advantage of hybrid columnar compression deploy smart flash cache and smart flash logging ensure the health of your exadata environment who this book is for oracle exadata recipes is for oracle database administrators unix linux administrators storage administrators backup administrators network administrators and oracle developers who want to quickly learn to develop effective and proven solutions without reading through a lengthy manual scrubbing for techniques readers in a hurry will appreciate the recipe format that sets up solutions to common tasks as the centerpiece of the book table of contents exadata hardware exadata software how oracle works on exadata workload qualification sizing exadata preparing for exadata administration and diagnostics utilities backup and recovery storage administration network administration patching and upgrades security monitoring exadata storage cells host and database performance monitoring smart scan and cell offload hybrid columnar compression i o resource management and instance caging smart flash cache and smart flash logging storage indexes post installation monitoring tasks post install database tasks

the handbook of computer networks is the third set of reference books from leading author and professor of management information systems at california state university bakersfield hossein bidgoli the handbook of computer networks is designed to arm researchers practitioners students and managers with in depth understanding of this important and fast growing field in its broadest scope and in an applied and functional framework each volume incorporates state of the art core information and networking topics practical applications and coverage of the emerging issues in the computer networking and data communications fields

grid computing is applying the resources of many computers in a network to a single problem at the same time grid computing appears to be a promising trend for three reasons 1 its ability to make more cost effective use of a given amount of computer resources 2 as a way to solve problems that can t be approached without an enormous amount of computing power 3 because it suggests that the resources of many computers can be cooperatively and perhaps synergistically harnessed and managed as a collaboration toward a common objective a number of corporations professional groups university consortiums and other groups have developed or are developing frameworks and software for managing grid computing projects the european community eu is sponsoring a project for a grid for high energy physics earth observation and biology applications in the united states the national technology grid is prototyping a computational grid for infrastructure and an access grid for people sun microsystems offers grid engine software described as a distributed resource management tool grid engine allows engineers at companies like sony and synopsis to pool the computer cycles on up to 80 workstations at a time the grid is a very hot topic generating broad interest from research and industry e g ibm platform avaki entropia sun hp grid architecture enables very popular e science projects like the genome project which demand global interaction and networking in recent surveys over 50 of chief information officers are expected to use grid technology this year grid computing features contributions from the major players in the field covers all aspects of grid technology from motivation to applications provides an extensive state of the art guide in grid computing this is essential reading for researchers in computing and engineering physicists statisticians engineers and mathematicians and it policy makers

a complete guide to smart grid networking and communications for energy engineers with contributions from more than 30 experts smart grid infrastructure networking describes cutting edge technologies for connecting the electrical power infrastructure to modern computerized communications networks the book offers essential information on standardization applications protocols automation architecture and management key topics such as bidirectional communication automation renewable energy integration wireless sensor networks and more are discussed in this practical comprehensive resource coverage includes demand side energy management the modernization of distribution automation featuring intelligent fdir and volt var optimization advanced asset management wide area early warning systems the integration of renewable energy sources into smart grids the microgrid in the electric system transformation enhancing the integration of renewables in radial distribution networks through smart links voltage based control of dg units and active loads in smart microgrids electric vehicles in a smart grid environment low voltage dc grid powered led lighting system with smart ambient sensor control for energy conservation in green building multiple

distributed smart microgrids with a self autonomous energy harvesting wireless sensor network wireless sensor networks for consumer applications in the smart grid zigbee based wireless monitoring and control system for smart grids

identifies recent technological developments worldwide the field of grid computing has made rapid progress in the past few years evolving and developing in almost all areas including concepts philosophy methodology and usages grid computing infrastructure service and applications reflects the recent advances in this field covering the research aspects that involve infrastructure middleware architecture services and applications grid systems across the globe the first section of the book focuses on infrastructure and middleware and presents several national and international grid systems the text highlights china research and development environment over wide area network crown several ongoing cyberinfrastructure efforts in new york state and enabling grids for e science egee which is co funded by the european commission and the world s largest multidisciplinary grid infrastructure today the second part of the book discusses recent grid service advances the authors examine the uk national grid service ngs the concept of resource allocation in a grid environment omiibpel and the possibility of treating scientific workflow issues using techniques from the data stream community the book describes an sla model reviews portal and workflow technologies presents an overview of pkis and their limitations and introduces pindex a peer to peer model for grid information services new projects and initiatives the third section includes an analysis of innovative grid applications topics covered include the wisdom initiative incorporating flow level networking models into grid simulators system level virtualization grid usage in the high energy physics environment in the lhc project and the service oriented hla rti sohr framework with a comprehensive summary of past advances this text is a window into the future of this nascent technology forging a path for the next generation of cyberinfrastructure developers

in today s dynamic business environment it departments are under permanent pressure to meet two divergent requirements to reduce costs and to support business agility with higher flexibility and responsiveness of the it infrastructure grid and cloud computing enable a new approach towards it they enable increased scalability and more efficient use of it based on virtualization of heterogeneous and distributed it resources this book provides a thorough understanding of the fundamentals of grids and clouds and of how companies can benefit from them a wide array of topics is covered e g business models and legal aspects the applicability of grids and clouds in companies is illustrated with four cases of real business experiments the experiments illustrate the technical solutions and the organizational and it governance challenges that arise with the introduction of grids and clouds practical guidelines on how to successfully introduce grids and clouds in companies are provided

ambient intelligence ami is the next wave in computing and communications technology nano sized sensors and computers wireless networks and intelligent software are being integrated to create ami environments this forward looking volume also covers such latest ami developments as smart dust smart personal

object technology and context aware computing

a comprehensive resource that covers all the key areas of smart grid communication infrastructures smart grid is a transformational upgrade to the traditional power grid that adds communication capabilities intelligence and modern control smart grid communication infrastructures is a comprehensive guide that addresses communication infrastructures related applications and other issues related to the smart grid the text shows how smart grid departs from the traditional power grid technology fundamentally smart grid has advanced communication infrastructures to achieve two way information exchange between service providers and customers grid operations in smart grid have proven to be more efficient and more secure because of the communication infrastructures and modern control smart grid communication infrastructures examines and summarizes the recent advances in smart grid communications big data analytics and network security the authors noted experts in the field review the technologies applications and issues in smart grid communication infrastructure this important resource offers a comprehensive review of all areas of smart grid communication infrastructures includes an ict framework for smart grid contains a review of self sustaining wireless neighborhood that are network designed presents design and analysis of a wireless monitoring network for transmission lines in smart grid written for graduate students professors researchers scientists practitioners and engineers smart grid communication infrastructures is the comprehensive resource that explores all aspects of the topic

presenting the work of prominent researchers working on smart grids and related fields around the world security and privacy in smart grids identifies state of the art approaches and novel technologies for smart grid communication and security it investigates the fundamental aspects and applications of smart grid security and privacy and reports on the latest advances in the range of related areas making it an ideal reference for students researchers and engineers in these fields the book explains grid security development and deployment and introduces novel approaches for securing today s smart grids supplying an overview of recommendations for a technical smart grid infrastructure the book describes how to minimize power consumption and utility expenditure in data centers it also details the challenges of cybersecurity for smart grid communication infrastructures covers the regulations and standards relevant to smart grid security explains how to conduct vulnerability assessments for substation automation systems considers smart grid automation scada system security and smart grid security in the last mile the book s chapters work together to provide you with a framework for implementing effective security through this growing system numerous figures illustrations graphs and charts are included to aid in comprehension with coverage that includes direct attacks smart meters and attacks via networks this versatile reference presentsactionable suggestions you can put to use immediately to prevent such attacks

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this comprehensive guide has been fully updated to cover the latest features and tools of oracle real application clusters 12c through clear instruction and detailed examples oracle database 12c real application clusters handbook concepts administration tuning and troubleshooting teaches how to build configure and maintain a dynamic enterprise computing infrastructure this thoroughly revised edition covers best uses for the latest tools and features all from the practical standpoint of a working dba you will discover how to prepare hardware configure the software optimize data integrity and integrate seamless failover protection brand new flex and large cluster technologies are explained in full detail and readers will get complete solutions for securing data and continuing business operations in the event of hardware failure presents all the new information needed to effectively use oracle real application clusters 12c considered the most radical overhaul ever offers detailed coverage of troubleshooting performance tuning and application development

this comprehensive new resource demonstrates how to build smart grids utilizing the latest telecommunications technologies readers find practical coverage of plc and wireless for smart grid and are given concise excerpts of the different technologies networks and services around it design and planning guidelines are shown through the combination of electricity grid and telecommunications technologies that support the reliability performance and security requirements needed in smart grid applications this book covers a wide range of critical topics including telecommunications for power engineers power engineering for telecommunications engineers utility applications projecting in smart grids technologies for smart grid networks and telecommunications architecture this practical reference is supported with in depth case studies

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