

Operation Research Solution By Hamdi

In a decentralized supply chain, most of the supply chain agents may not share information due to confidentiality policies, quality of information, or different system incompatibilities. Every actor holds its own set of information and attempts to maximize its objective (minimizing costs/minimizing inventory holdings) based on the available settings. Therefore, the agents control their own activities with the objective of improving their own competitiveness, which leads them to make decisions that maximize their local performance by ignoring the other agents or even the final consumer. These decisions are myopic because they do not consider the performance of all the partners to satisfy the consumer. Demand Forecasting and Order Planning in Supply Chains and Humanitarian Logistics is a collection of innovative research that focuses on demand anticipation, forecasting, and order planning as well as humanitarian logistics to propose original solutions for existing problems. While highlighting topics including artificial intelligence, information sharing, and operations management, this book is ideally designed for supply chain managers, logistics personnel, business executives, management experts, operation industry professionals, academicians, researchers, and students who want to improve their

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understanding of supply chain coordination in order to be competitive in the new era of globalization.

This book focuses on distributed and economic Model Predictive Control (MPC) with applications in different fields. MPC is one of the most successful advanced control methodologies due to the simplicity of the basic idea (measure the current state, predict and optimize the future behavior of the plant to determine an input signal, and repeat this procedure ad infinitum) and its capability to deal with constrained nonlinear multi-input multi-output systems. While the basic idea is simple, the rigorous analysis of the MPC closed loop can be quite involved. Here, distributed means that either the computation is distributed to meet real-time requirements for (very) large-scale systems or that distributed agents act autonomously while being coupled via the constraints and/or the control objective. In the latter case, communication is necessary to maintain feasibility or to recover system-wide optimal performance. The term economic refers to general control tasks and, thus, goes beyond the typically predominant control objective of set-point stabilization. Here, recently developed concepts like (strict) dissipativity of optimal control problems or turnpike properties play a crucial role. The book collects research and survey articles on recent ideas and it provides perspectives on current trends in nonlinear model predictive control. Indeed, the

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book is the outcome of a series of six workshops funded by the German Research Foundation (DFG) involving early-stage career scientists from different countries and from leading European industry stakeholders.

"This book addresses the coordination of operations planning of supply chains involves simplifying complex decision problems into a hierarchy of mutually inter-dependent decision problems. It also provides insights and support executives concerned with the management of expertise, knowledge, information and organizational development in different types of work communities and environments"--

This book discusses the recent developments in robust optimization (RO) and information gap design theory (IGDT) methods and their application for the optimal planning and operation of electric energy systems. Chapters cover both theoretical background and applications to address common uncertainty factors such as load variation, power market price, and power generation of renewable energy sources. Case studies with real-world applications are included to help undergraduate and graduate students, researchers and engineers solve robust power and energy optimization problems and provide effective and promising solutions for the robust planning and operation of electric energy systems.

Provides research on security issues in various wireless communications, recent

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advances in wireless security, the wireless security model, and future directions in wireless security.

The world's fresh water supplies are dwindling rapidly-even wastewater is now considered an asset. By 2025, most of the world's population will be facing serious water stresses and shortages. Aquananotechnology: Global Prospects breaks new ground with its informative and innovative introduction of the application of nanotechnology to the remediation of contaminated water. CD-ROM contains: algorithms and explanations -- tutorial features -- menu-driven TORA optimization system -- over 20 general and ready-to-use Excel spreadsheet templates -- several Excel Solver templates -- example applications of the commercial packages AMPL and LINGO.

Contributions from three symposia that were part of the 34th International Conference on Advanced Ceramics and Composites (ICACC), in Daytona Beach, FL, January 24-29, 2010 are presented in this volume. The broad range of topics is captured by the symposia titles, which are listed as follows: International Symposium on Ceramics for Electric Energy Generation, Storage, and Distribution (debuted in 2010); Thermal Management Materials and Technologies (debuted in 2010); and lastly, and Advanced Sensor Technology, Developments and Applications (debuted in 2010). These new symposia emerged during this ICACC meeting due to community growth and interest, and thus each of these subject areas were established as stand-alone symposia. The current volume represents 15 contributions from the above

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listed symposia that embody the latest developments in engineering ceramics for energy technologies, thermal management utilizing either highly conductive or insulating materials, as well as advances regarding the utilization of ceramics for sensors. "

FINALIST FOR THE BOOKER PRIZE 10 BEST BOOKS OF 2017, NEW YORK TIMES BOOK REVIEW WINNER OF THE L.A. TIMES BOOK PRIZE FOR FICTION and THE ASPEN WORDS LITERARY PRIZE "A breathtaking novel...[that] arrives at an urgent time." —NPR "It was as if Hamid knew what was going to happen to America and the world, and gave us a road map to our future... At once terrifying and ... oddly hopeful." —Ayelet Waldman, *The New York Times Book Review* "Moving, audacious, and indelibly human." —*Entertainment Weekly*, "A" rating A *New York Times* bestseller, the astonishingly visionary love story that imagines the forces that drive ordinary people from their homes into the uncertain embrace of new lands. In a country teetering on the brink of civil war, two young people meet—sensual, fiercely independent Nadia and gentle, restrained Saeed. They embark on a furtive love affair, and are soon cloistered in a premature intimacy by the unrest roiling their city. When it explodes, turning familiar streets into a patchwork of checkpoints and bomb blasts, they begin to hear whispers about doors—doors that can whisk people far away, if perilously and for a price. As the violence escalates, Nadia and Saeed decide that they no longer have a choice. Leaving their homeland and their old lives behind, they find a door and step through. . . . *Exit West* follows these remarkable characters as they emerge into an alien and uncertain future, struggling to hold on to each other, to their past, to the very sense of who they are. Profoundly intimate and powerfully inventive, it tells an unforgettable story of love, loyalty, and courage that is both completely of our time and for all time.

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This book presents a collection of chapters from different areas of science and engineering, where Petri Nets have been shown to be a useful tool for the design and modeling of the problems that arise in such fields. The areas covered in this book include manufacturing systems, authentication and cyber-security, computer architectures, mechanical systems, process mining, control theory and time analysis. The main focus of the chapters was to be illustrative, to help the development of intuitive ideas that may guide the reader to adopt Petri Nets in their scientific or engineering work. However, there are other chapters with deep mathematical basis such as time analysis. Whenever possible, models, graphics and examples illustrate the developed concepts.

Sustainability in agriculture and associated primary industries, which are both energy-intensive, is crucial for the development of any country. Increasing scarcity and resulting high fossil fuel prices combined with the need to significantly reduce greenhouse gas emissions, make the improvement of energy efficient farming and increased use of renewable energy essential. This book provides a technological and scientific endeavor to assist society and farming communities in different regions and scales to improve their productivity and sustainability. To fulfill future needs of a modern sustainable agriculture, this book addresses highly actual topics providing innovative, effective and more sustainable solutions for agriculture by using sustainable, environmentally friendly, renewable energy sources and modern energy efficient, cost-improved technologies. The book highlights new areas of research, and further R&D needs. It helps to improve food security for the rapidly growing world population and to reduce carbon dioxide emissions from fossil fuel use in agriculture, which presently contributes 22% of the global carbon dioxide emissions. This book provides a source of information, stimuli and

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incentives for what and how new and energy efficient technologies can be applied as effective tools and solutions in agricultural production to satisfy the continually increasing demand for food and fibre in an economically sustainable way, while contributing to global climate change mitigation. It will be useful and inspiring to decision makers working in different authorities, professionals, agricultural engineers, researchers, and students concerned with agriculture and related primary industries, sustainable energy development and climate change mitigation projects.

This volume contains some carefully selected papers presented at the 8th International Conference on Knowledge, Information and Creativity Support Systems KICCS'2013, which was held in Kraków and Wieliczka, Poland in November 2013. In most cases the papers are extended versions with newer results added, representing virtually all topics covered by the conference. The KICCS'2013 focus theme, "Looking into the Future of Creativity and Decision Support Systems", clearly indicates that the growing complexity calls for some deeper and insightful discussions about the future but, obviously, complemented with an exposition of modern present developments that have proven their power and usefulness. Following this theme, the list of topics presented in this volume include some future-oriented fields of research, such as anticipatory networks and systems, foresight support systems, relevant newly-emerging applications, exemplified by autonomous creative systems. Special attention was also given to cognitive and collaborative aspects of creativity.

This book constitutes the refereed proceedings of the 11th International Conference on Smart Homes and Health Telematics, ICOST 2013, held in Singapore, in June 2013. The 22 revised full papers presented together with one invited paper and 19 short papers were carefully

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reviewed and selected from 53 submissions. The papers are organized in topical sections on Supportive Technology for Ageing and People with Cognitive Impairment; Activity Recognition and Algorithmic Techniques; Trust, Security and Social Issues; Assistive Robotics and HCI Issues; Supporting Safety and Pervasive Healthcare; Home Energy Usage, Reasoning Framework, Services; Algorithms for Smart Homes; Eldercare – Activity Recognition and Fall Detection; Healthcare and Rehabilitation; Robotics and Assistive Living.

Elephant tourism is a growing activity in many countries across Asia and Africa and is popular with tourists from all parts of the world. Elephant tourism has grown rapidly, providing the only viable way for elephants and their owners to survive since the banning of logging. Old logging camps have been developed into sanctuaries for some elephants, but many other camps were established as entertainment centres, resulting in serious welfare issues for the elephants and their mahouts. The profits from elephant tourism in Asia have encouraged African operators to follow a similar business model. This book draws attention to the need for a comprehensive and rigorous focus on local solutions to improve the welfare of captive elephants, their mahouts and local residents, and to enhance tourists' experiences of elephant tourism.

There are more than one billion documents on the Web, with the count continually rising at a pace of over one million new documents per day. As information increases, the motivation and interest in data warehousing and mining research and practice remains high in organizational interest. The Encyclopedia of Data Warehousing and Mining, Second Edition, offers thorough exposure to the issues of importance in the rapidly changing field of data warehousing and mining. This essential reference source

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informs decision makers, problem solvers, and data mining specialists in business, academia, government, and other settings with over 300 entries on theories, methodologies, functionalities, and applications.

Transitioning to Quality Education focuses on the fourth UN Sustainable Development Goal. According to SDG 4, every learner should acquire the knowledge and skills needed to promote sustainable development (UN 2015, 17). Thus, the aim of sustainability education is to foster learners to be creative and responsible global citizens, who critically reflect on the ideas of sustainable development and the values that underlie them, and take responsible actions for sustainable development (UNESCO 2017). Sustainability is strongly connected to attitudes and values, therefore, applications of sustainability are complicated. Quality education requires teachers to have competences, knowledge, and skills to be able to plan and carry out meaningful education and teaching in sustainability. The aim of Transitioning to Quality Education is to provide versatile experiences and new knowledge on the cognitive, affective, and social issues that are important for promoting sustainable development in formal and non-formal education. Transitioning to Quality Education is part of MDPI's new Open Access book series Transitioning to Sustainability. With this series, MDPI pursues environmentally and socially relevant research which contributes to efforts toward a sustainable world. Transitioning to Sustainability aims to add to the conversation about regional and global sustainable development according to the 17 SDGs. Set to be

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published in 2020/2021, the book series is intended to reach beyond disciplinary, even academic boundaries.

Smart Delivery Systems: Solving Complex Vehicle Routing Problems examines both exact and approximate methods for delivering optimal solutions to rich vehicle routing problems, showing both the advantages and disadvantages of each approach. It shows how to apply machine learning and advanced data analysis techniques to improve routing systems, familiarizing readers with the concepts and technologies used in successfully implemented delivery systems. The book explains both the latest theoretical and practical advances in intelligent delivery and scheduling systems and presents practical applications for designing new algorithms for real-life scenarios.

Emphasizes both sequential and parallel algorithms Uniquely combines methods and algorithms, real-life applications, and parallel computing Includes recommendations on how to choose between different methods for solving applications Provides learning aids, end of chapter references, bibliography, worked examples and exercises

This book presents the latest cutting edge research, theoretical methods, and novel applications in the field of computational intelligence and computational biological approaches that are aiming to combat COVID-19. The book gives the technological key drivers behind using AI to find drugs that target the virus, shedding light on the structure of COVID-19, detecting the outbreak and spread of new diseases, spotting signs of a COVID-19 infection in medical images, monitoring how the virus and lockdown is

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affecting mental health, and forecasting how COVID-19 cases and deaths will spread across cities and why. Further, the book helps readers understand computational intelligence techniques combating COVID-19 in a simple and systematic way. Provides a comprehensive reference covering innovations and development of theories, conceptual models and computational algorithms focused on COVID-19; Asserts all relevant research, key themes, complex adaptive systems, metrics and paradigms dedicated towards COVID-19, enabled with evolutionary methods of computational sciences; Explores how AI and computational techniques can help to predict which patients with the virus would go on to develop Acute Respiratory Distress Syndrome (ARDS).

Advances in Computing, Communication, Automation and Biomedical Technology aims to bring together leading academic, scientists, researchers, industry representatives, postdoctoral fellows and research scholars around the world to share their knowledge and research expertise, to advances in the areas of Computing, Communication, Electrical, Civil, Mechanical and Biomedical Systems as well as to create a prospective collaboration and networking on various areas. It also provides a premier interdisciplinary platform for researchers, practitioners, and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered, and solutions adopted in the fields of innovation.

This book gives definition to participatory practice as a necessary form of activism in

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development planning for cities. It gives guidance on how practice can make space for big and lasting change and for new opportunities to be discovered. It points to ways of building synergy and negotiating our way in the social and political spaces 'in between' conventional and often competing ideals – public and private interests, top down and bottom up, formal and informal, the global agendas which outsiders promote and the local needs of insiders, for example. It offers guidance on process, designed to close gaps and converge worlds which we know have become divisive and discriminatory, working from the detail of everyday life in search of beginnings that count, building out and making meaningful locally, the abstractions of the global causes we champion – poverty alleviation, environmental sustainability, resilience. Practice – the collective process by which decisions are negotiated, plans designed and actions taken in response to needs and aspirations, locally and globally – we will see, is not just about being practical, but more. Its purpose is to give structure to our understanding of the order and disorder in our cities today, then to disturb that order when it has become inefficient or inequitable, even change it. It is to add moral value to morally questionable planning practice and so build "a social economy for the satisfaction of human need." Practice in these spaces 'in-between' redraws the boundaries of expectation of disciplinary work and offers a new high ground of moral purpose from which to be more creative, more integrated, more relevant, more resourceful – more strategic. This book provides a comprehensive overview on the latest developments in the

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control, operation, and protection of microgrids. It provides readers with a solid approach to analyzing and understanding the salient features of modern control and operation management techniques applied to these systems, and presents practical methods with examples and case studies from actual and modeled microgrids. The book also discusses emerging concepts, key drivers and new players in microgrids, and local energy markets while addressing various aspects from day-ahead scheduling to real-time testing of microgrids. The book will be a valuable resource for researchers who are focused on control concepts, AC, DC, and AC/DC microgrids, as well as those working in the related areas of energy engineering, operations research and its applications to energy systems. Presents modern operation, control and protection techniques with applications to real world and emulated microgrids; Discusses emerging concepts, key drivers and new players in microgrids and local energy markets; Addresses various aspects from day-ahead scheduling to real-time testing of microgrids.

This book deals with stochastic combinatorial optimization problems in supply chain disruption management, with a particular focus on management of disrupted flows in customer-driven supply chains. The problems are modeled using a scenario based stochastic mixed integer programming to address risk-neutral, risk-averse and mean-risk decision-making in the presence of supply chain disruption risks. The book focuses on innovative, computationally efficient portfolio approaches to supply chain disruption

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management, e.g., selection of primary and recovery supply portfolios, demand portfolios, capacity portfolios, etc. Numerous computational examples throughout the book, modeled in part on real-world supply chain disruption management problems, illustrate the material presented and provide managerial insights. In the computational examples, the proposed mathematical programming models are solved using an advanced algebraic modeling language such as AMPL and CPLEX, GUROBI and XPRESS solvers. The knowledge and tools provided in the book allow the reader to model and solve supply chain disruption management problems using commercially available software for mixed integer programming. Using the end-of chapter problems and exercises, the monograph can also be used as a textbook for an advanced course in supply chain risk management. After an introductory chapter, the book is then divided into five main parts. Part I addresses selection of a supply portfolio; Part II considers integrated selection of supply portfolio and scheduling; Part III looks at integrated, equitably efficient selection of supply portfolio and scheduling; Part IV examines integrated selection of primary and recovery supply (and demand) portfolios and scheduling; and Part V addresses disruption management of information flows in supply chains.

Building on the author's earlier Applied Simulation and Optimization, this book presents novel methods for solving problems in industry, based on hybrid simulation-optimization approaches that combine the advantages of both paradigms. The book serves as a

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comprehensive guide to tackling scheduling, routing problems, resource allocations and other issues in industrial environments, the service industry, production processes, or supply chains and aviation. Logistics, manufacturing and operational problems can either be modelled using optimization techniques or approaches based on simulation methodologies. Optimization techniques have the advantage of performing efficiently when the problems are properly defined, but they are often developed through rigid representations that do not include or accurately represent the stochasticity inherent in real systems. Furthermore, important information is lost during the abstraction process to fit each problem into the optimization technique. On the other hand, simulation approaches possess high description levels, but the optimization is generally performed through sampling of all the possible configurations of the system. The methods explored in this book are of use to researchers and practising engineers in fields ranging from supply chains to the aviation industry.

"Rather than parallelizing sequential algorithms, the authors develop new back-substitution free parallel algorithms, using a bidirectional elimination technique for the solution of both dense and sparse linear equations. They provide full coverage of bidirectional parallel algorithms based on Gaussian elimination, LU factorization, Householder reductions and modified Gram-Schmidt orthogonalization, Givens rotations, sparse Cholesky factorization, and sparse factorization, clearly demonstrating how the bidirectional approach allows for improved speedup, numerical stability, and

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efficient implementation on multiprocessor systems." "Plus, the book offers a useful survey of the vast literature on direct methods, introductory material on solving systems of linear equations, and exercises. It is an invaluable resource for computer scientists, researchers in parallel linear algebra, and anyone with an interest in parallel programming."--BOOK JACKET.

For first courses in operations research, operations management Optimization in Operations Research, Second Edition covers a broad range of optimization techniques, including linear programming, network flows, integer/combinational optimization, and nonlinear programming. This dynamic text emphasizes the importance of modeling and problem formulation and how to apply algorithms to real-world problems to arrive at optimal solutions. Use a program that presents a better teaching and learning experience-for you and your students. Prepare students for real-world problems: Students learn how to apply algorithms to problems that get them ready for their field. Use strong pedagogy tools to teach: Key concepts are easy to follow with the text's clear and continually reinforced learning path. Enjoy the text's flexibility: The text features varying amounts of coverage, so that instructors can choose how in-depth they want to go into different topics.

Over the past decade, the Command and Control (C2) field has been making a transformation from top-down, directive command to Network Centric Operations (NCO), peer-to-peer negotiation, self-synchronization, and agility. As the terms NCO and

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NEC suggest, C2 systems are regarded as networks, rather than a hierarchy. Accordingly, it is appropriate to view the C2 process and C2 systems through the lens of network theory. *Network Topology in Command and Control: Organization, Operation, and Evolution* aims to connect the fields of C2 and network science. Featuring timely research on topics pertaining to the C2 network evolution, security, and modeling, this publication is ideal for reference use by students, academicians, and security professionals in the fields of C2 and network science.

Mathematics—Advances in Research and Application: 2013 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about ZZZAdditional Research in a concise format. The editors have built

Mathematics—Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about ZZZAdditional Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of *Mathematics—Advances in Research and Application: 2013 Edition* has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

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What exactly is 'small change'? Build a bus stop in an urban slum and a vibrant community sprouts and grows around it - that is the power of small changes that have huge positive effects. This book is an argument for the wisdom of the street, the ingenuity of the improvisers and the long-term, large-scale effectiveness of immediate, small-scale actions. Written by Nabeel Hamdi, the guru of urban participatory development and the master of the art, *Small Change* brings over three decades of experience and knowledge to bear on the question 'what is practice?'. Through an easy-to-read narrative style, and using examples from the North and South, the author sheds light on this question and the issues that stem from it - issues relating to political context, the lessons of the 'informal city', and the pursuit of learning that challenges convention. The result is a comprehensive, yet imaginative, guide to the forms of knowledge, competencies and ways of thinking that are fundamental to skilful practice in urban development. This is powerful, informed, critical and inspiring reading for practitioners in the field, students and teachers of urban development, those who manage international aid and everyone looking to build their community.

This book captures current trends and developments in the field of systems thinking and soft operations research which can be applied to solve today's problems of dynamic complexity and interdependency. Such 'wicked problems' and messes are seemingly intractable problems characterized as value-laden, ambiguous, and unstable, that resist being tamed by classical problem solving.

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Actions and interventions associated with this complex problem space can have highly unpredictable and unintended consequences. Examples of such complex problems include health care reform, global climate change, transnational serious and organized crime, terrorism, homeland security, human security, disaster management, and humanitarian aid. Moving towards the development of solutions to these complex problem spaces depends on the lens we use to examine them and how we frame the problem. It will be shown that systems thinking and soft operations research has had great success in contributing to the management of complexity.

This book constitutes the refereed proceedings of the third Maple Conference, MC 2019, held in Waterloo, Ontario, Canada, in October 2019. The 21 revised full papers and 9 short papers were carefully reviewed and selected out of 37 submissions, one invited paper is also presented in the volume. The papers included in this book cover topics in education, algorithms, and applications of the mathematical software Maple.

This book presents a panoramic look at the transformation of the transmission network in the context of the energy transition. It provides readers with basic definitions as well as details on current challenges and emerging technologies. In-depth chapters cover the integration of renewables, the particularities of planning

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large-scale systems, efficient reduction and solution methods, the possibilities of HVDC and super grids, distributed generation, smart grids, demand response, and new regulatory schemes. The content is complemented with case studies that highlight the importance of the power transmission network as the backbone of modern energy systems. This book will be a comprehensive reference that will be useful to both academics and practitioners. Contains theoretical developments and practical case studies Discusses the implications of emerging technologies Presents different models, techniques and algorithms, as well as software tools. Distributed Generation Systems: Design, Operation and Grid Integration closes the information gap between recent research on distributed generation and industrial plants, and provides solutions to their practical problems and limitations. It provides a clear picture of operation principles of distributed generation units, not only focusing on the power system perspective but targeting a specific need of the research community. This book is a useful reference for practitioners, featuring worked examples and figures on principal types of distributed generation with an emphasis on real-world examples, simulations, and illustrations. The book uses practical exercises relating to the concepts of operating and integrating DG units to distribution networks, and helps engineers accurately design systems and reduce maintenance costs. Provides examples

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and datasheets of principal systems and commercial data in MATLAB Presents guidance for accurate system designs and maintenance costs Identifies trouble shooting references for engineers Closes the information gap between recent research on distributed generation and industrial plants

Cloud technologies have revolutionized the way we store information and perform various computing tasks. With the rise of this new technology, the ability to secure information stored on the cloud becomes a concern. The Handbook of Research on Securing Cloud-Based Databases with Biometric Applications explores the latest innovations in promoting cloud security through human authentication techniques. Exploring methods of access by identification, including the analysis of facial features, fingerprints, DNA, dental characteristics, and voice patterns, this publication is designed especially for IT professionals, academicians, and upper-level students seeking current research surrounding cloud security.

Describes tools of e-security and a range of applications, including recently developed technologies like Trust management systems and biometrics-based security.

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