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- o Rack Floor Plan, Mechanical and Electrical Design
- o Fire Protection and Safety
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The book imparts essential knowledge needed to implement data center design and construction, apply IT technologies, and continually improve data center operations. Author Bios Hwaiyu Geng, P.E., (Palo Alto, California) is a consultant with Amica Association, promoting green planning, design, and construction projects.

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Hwaiyu Geng, P.E., (Palo Alto, California) is a consultant with Amica Association, promoting green planning, design, and construction projects. He has had over 40 years of manufacturing and management experience, working with Westinghouse, Applied Materials, Hewlett-Packard, and Intel on multimillion high-tech projects.

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Hwaiyu Geng Data Center Handbook provides the fundamentals, technologies, and best practices in designing, constructing and managing mission critical, energy efficient data centers.

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Provides the fundamentals, technologies, and best practices in designing, constructing and managing mission critical, energy efficient data centers
Organizations in need of high-speed connectivity and nonstop systems operations depend upon data centers for a range of deployment solutions. A data center is a facility used to house computer systems and associated components.

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Hwaiyu Geng, P.E., (Palo Alto, California) is a consultant with Amica Association, promoting green planning, design, and construction projects. He has had over 40 years of manufacturing and management experience, working with Westinghouse, Applied Materials, Hewlett-Packard, and Intel on multimillion high-tech projects.

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Data Center Handbook PROVIDES THE FUNDAMENTALS, TECHNOLOGIES, AND BEST PRACTICES IN DESIGNING, CONSTRUCTING, AND MANAGING MISSION-CRITICAL, ENERGY-EFFICIENT DATA CENTERS. Organizations in need of high-speed connectivity and nonstop system operations depend upon data centers for a range of deployment solutions.

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Hwaiyu Geng HardCoverDecember 12, 2014 Provides the fundamentals, technologies, and best practices in designing, constructing and managing mission critical, energy efficient data centers
Organizations in need of high-speed connectivity and nonstop systems operations depend upon data centers for a range of deployment solutions.

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With contributions from an international list of experts, The Data Center Handbook instructs readers to: Prepare strategic plan that includes location plan, site selection, roadmap and capacity planning
Design and build "green" data centers, with mission critical and energy-efficient infrastructure

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Written by 58 experts and reviewed by a seasoned technical advisory board, the Data Center Handbook is a thoroughly revised, one-stop resource that clearly explains the fundamentals, advanced technologies, and best practices used in planning, designing, building and operating a mission-critical, energy-efficient, sustainable data center. This handbook, in its second edition, covers anatomy, ecosystem and taxonomy of data centers that enable the Internet of Things and artificial intelligent ecosystems and encompass the following: SECTION 1: DATA CENTER OVERVIEW AND STRATEGIC PLANNING · Megatrends, the IoT, artificial intelligence, 5G network, cloud and edge computing · Strategic planning forces, location plan, and capacity planning · Green design & construction guidelines and best practices · Energy demand, conservation, and sustainability strategies · Data center financial analysis & risk management SECTION 2: DATA CENTER TECHNOLOGIES · Software-defined environment · Computing, storage, network resource management · Wireless sensor networks in data centers · ASHRAE data center guidelines · Data center telecommunication cabling, BICSI and TIA 942 · Rack-level and server-level cooling · Corrosion and contamination control · Energy saving technologies and server design · Microgrid and data centers SECTION 3: DATA CENTER DESIGN & CONSTRUCTION · Data center site selection · Architecture design: rack floor plan and facility layout · Mechanical design and cooling technologies · Electrical design and UPS · Fire protection · Structural design · Reliability engineering · Computational fluid dynamics · Project management SECTION 4: DATA CENTER OPERATIONS TECHNOLOGIES · Benchmarking metrics and assessment · Data center infrastructure management · Data center air management · Disaster recovery and business continuity management The Data Center Handbook: Plan, Design, Build, and Operations of a Smart Data Center belongs on the bookshelves of any professionals who work in, with, or around a data center.

Provides the fundamentals, technologies, and best practices in designing, constructing and managing mission critical, energy efficient data centers
Organizations in need of high-speed connectivity and nonstop systems operations depend upon data centers for a range of deployment solutions. A data center is a facility used to house computer systems and associated components, such as telecommunications and storage systems. It generally includes multiple power sources, redundant data communications connections, environmental controls (e.g., air conditioning, fire suppression) and security devices. With contributions from an international list of experts, The Data Center Handbook instructs readers to: Prepare strategic plan that includes location plan, site selection, roadmap and capacity planning
Design and build "green" data centers, with mission critical and energy-efficient infrastructure
Apply best practices to reduce energy consumption and carbon emissions
Apply IT technologies such as cloud and virtualization
Manage data centers in order to sustain operations with minimum costs
Prepare and practice disaster roovery and business continuity plan
The book imparts essential knowledge needed to implement data center design and construction, apply IT technologies, and continually improve data center operations.

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Master the basics of data centers to build server farms that enhance your Web site performance
Learn design guidelines that show how to deploy server farms in highly available and scalable environments
Plan site performance capacity with discussions of server farm architectures and their real-life applications to determine your system needs
Today's market demands that businesses have an Internet presence through which they can perform e-commerce and customer support, and establish a presence that can attract and increase their customer base. Underestimated hit ratios, compromised credit card records, perceived slow Web site access, or the infamous "Object Not Found" alerts make the difference between a successful online presence and one that is bound to fail. These challenges can be solved in part with the use of data center technology. Data centers switch traffic based on information at the Network, Transport, or Application layers. Content switches perform the "best server" selection process to direct users' requests for a specific service to a server in a server farm. The best server selection process takes into account both server load and availability, and the existence and consistency of the requested content. Data Center Fundamentals helps you understand the basic concepts behind the design and scaling of server farms using data center and content switching technologies. It addresses the principles and concepts needed to take on the most common challenges encountered during planning, implementing, and managing Internet and intranet IP-based server farms. An in-depth analysis of the data center technology with real-life scenarios make Data Center Fundamentals an ideal reference for understanding, planning, and designing Web hosting and e-commerce environments.

Let our teams of experts help you to stay competitive in a global marketplace. It is every company's goal to build the highest quality goods at the lowest price in the shortest time possible. With the Manufacturing Engineering Handbook you'll have access to information on conventional and modern manufacturing processes and operations management that you didn't have before. For example, if you are a manufacturing engineer responding to a request for proposal (RFP), you will find everything you need for estimating manufacturing cost, labor cost and overall production cost by turning to chapter 2, section 2.5, the manufacturing estimating section. The handbook will even outline the various manufacturing processes for you. If you are a plant engineer working in an automotive factory and find yourself in the hot working portion of the plant, you should look up section 6 on hot work and forging processing. You will find it very useful for learning the machines and processes to get the job done. Likewise, if you are a Design Engineer and need information regarding hydraulics, generators & transformers, turn to chapter 3, section 3.2.3, and you'll find generators & transformers. Covering topics from engineering mathematics to warehouse management systems, Manufacturing Engineering Handbook is the most comprehensive single-source guide to Manufacturing Engineering ever published.

Cloud Data Centers and Cost Modeling establishes a framework for strategic decision-makers to facilitate the development of cloud data centers. Just as building a house requires a clear understanding of the blueprints, architecture, and costs of the project; building a cloud-based data center requires similar knowledge. The authors take a theoretical and practical approach, starting with the key questions to help uncover needs and clarify project scope. They then demonstrate probability tools to test and support decisions, and provide processes that resolve key issues. After laying a foundation of cloud concepts and definitions, the book addresses data center creation, infrastructure development, cost modeling, and simulations in decision-making, each part building on the previous. In this way the authors bridge technology, management, and infrastructure as a service, in one complete guide to data centers that facilitates educated decision making. Explains how to balance cloud computing functionality with data center efficiency
Covers key requirements for power management, cooling, server planning, virtualization, and storage management
Describes advanced methods for modeling cloud computing cost including Real Option Theory and Monte Carlo Simulations
Blends theoretical and practical discussions with insights for developers, consultants, and analysts considering data center development

An era of big data demands datacenters, which house the computing infrastructure that translates raw data into valuable information. This book defines datacenters broadly, as large distributed systems that perform parallel computation for diverse users. These systems exist in multiple forms—private and public—and are built at multiple scales. Datacenter design and management is multifaceted, requiring the simultaneous pursuit of multiple objectives. Performance, efficiency, and fairness are first-order design and management objectives, each which can be viewed from several perspectives. This book surveys datacenter research from a computer architect's perspective, addressing challenges in applications, design, management, server simulation, and system simulation. This perspective complements the rich bodies of work in datacenters as a warehouse-scale system, which study the implications for infrastructure that encloses computing equipment, and in datacenters as a distributed systems, which employ abstract details in processor and memory subsystems. This book is written for first- or second-year graduate students in computer architecture and may be helpful for those in computer systems. The goal of this book is to prepare computer architects for datacenter-oriented research by describing prevalent perspectives and the state-of-the-art.

Cloud Data Center Network Architectures and Technologies has been written with the support of Huawei's vast technical knowledge and experience in the data center network (DCN) field, as well as its understanding of customer service requirements. This book describes in detail the architecture design, technical implementation, planning and design, and deployment suggestions for cloud DCNs based on the service challenges DCNs encounter. It starts by describing the overall architecture and technical evolution of DCNs, with the aim of helping readers understand the development of DCNs. It then proceeds to explain the design and implementation of cloud DCNs, including the service model of a single data center (DC), construction of physical and logical networks of DCs, construction of multiple DCNs, and security solutions of DCs. Next, this book dives deep into practices of cloud DCN deployment based on real-world cases to help readers better understand how to build cloud DCNs. Finally, this book introduces DCN openness and some of the hottest forward-looking technologies. In summary, you can use this book as a reference to help you to build secure, reliable, efficient, and open cloud DCNs. It is intended for technical professionals of enterprises, research institutes, information departments, and DCs, as well as teachers and students of computer network-related majors in colleges and universities. Authors Lei Zhang Mr. Zhang is the Chief Architect of Huawei's DCN solution. He has more than 20 years' experience in network product and solution design, as well as a wealth of expertise in product design and development, network planning and design, and network engineering project implementation. He has led the design and deployment of more than 10 large-scale DCNs for Fortune Global 500 companies worldwide. Le Chen Mr. Chen is a Huawei DCN Solution Documentation Engineer with eight years' experience in developing documents related to DCN products and solutions. He has participated in the design and delivery of multiple large-scale enterprise DCNs. Mr. Chen has written many popular technical document series, such as DCN Handbook and BGP Topic.

This book examines the Internet of Things (IoT) and Data Analytics from a technical, application, and business point of view. Internet of Things and Data Analytics Handbook describes essential technical knowledge, building blocks, processes, design principles, implementation, and marketing for IoT projects. It provides readers with knowledge in planning, designing, and implementing IoT projects. The book is written by experts on the subject matter, including international experts from nine countries in the consumer and enterprise fields of IoT. The text starts with an overview and anatomy of IoT, ecosystem of IoT, communication protocols, networking, and available hardware, both present and future applications and transformations, and business models. The text also addresses big data analytics, machine learning, cloud computing, and consideration of sustainability that are essential to be both socially responsible and successful. Design and implementation processes are illustrated with best practices and case studies in action. In addition, the book: Examines cloud computing, data analytics, and sustainability and how they relate to IoT over the scope of consumer, government, and enterprise applications
Includes best practices, business model, and real-world case studies
Hwaiyu Geng, P.E., is a consultant with Amica Research (www.AmicaResearch.org, Palo Alto, California), promoting green planning, design, and construction projects. He has had over 40 years of manufacturing and management experience, working with Westinghouse, Applied Materials, Hewlett Packard, and Intel on multi-million high-tech projects. He has written and presented numerous technical papers at international conferences. Mr. Geng, a patent holder, is also the editor/author of Data Center Handbook (Wiley, 2015).