

SECOND EDITION

# DATA CENTER HANDBOOK

PLAN, DESIGN, BUILD, AND OPERATIONS OF A SMART DATA CENTER

HWAIYU GENG P.E.



WILEY

# Data Center Handbook

**Jean Davenport**



## **Data Center Handbook:**

*Data Center Handbook* Hwaiyu Geng, 2021-04-27 DATA CENTER HANDBOOK Written by 59 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

**Data Center Handbook** Hwaiyu Geng, 2014-12-01 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 recovery 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

**Handbook on Data Centers** Samee

U. Khan, Albert Y. Zomaya, 2015-03-16 This handbook offers a comprehensive review of the state of the art research achievements in the field of data centers. Contributions from international leading researchers and scholars offer topics in cloud computing, virtualization in data centers, energy efficient data centers, and next generation data center architecture. It also comprises current research trends in emerging areas such as data security, data protection, management, and network resource management in data centers. Specific attention is devoted to industry needs associated with the challenges faced by data centers such as various power, cooling, floor space, and associated environmental health and safety issues while still working to support growth without disrupting quality of service. The contributions cut across various IT data technology domains as a single source to discuss the interdependencies that need to be supported to enable a virtualized next generation energy efficient, economical, and environmentally friendly data center. This book appeals to a broad spectrum of readers including server, storage, networking, database, and applications analysts, administrators, and architects. It is intended for those seeking to gain a stronger grasp on data center networks, the fundamental protocol used by the applications and the network, the typical network technologies, and their design aspects. The Handbook of Data Centers is a leading reference on design and implementation for planning, implementing, and operating data center networks. **Data Center Handbook**

Hwaiyu Geng, 2014-12-22 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 recovery 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. The Modern Data Center: A Comprehensive Guide Charles Nehme, Purpose of the Book In today's digital age, data centers are the backbone of virtually every industry, from finance and healthcare to entertainment and retail. This book, The Modern Data Center: A Comprehensive Guide, aims to provide a thorough understanding of the complexities and innovations that define contemporary data centers. Whether you are an IT professional, a data center manager, or a technology enthusiast, this guide is designed to equip you with the knowledge necessary to navigate and excel in the ever-evolving landscape of data centers. The Evolution and Significance of Modern Data Centers Data centers have come a long

way since the early days of computing What began as simple server rooms has evolved into sophisticated multi layered environments that support a wide range of applications and services critical to modern business operations The significance of data centers cannot be overstated they are integral to the functioning of the internet cloud services and the digital infrastructure that supports our daily lives Target Audience This book is tailored for a diverse audience IT Professionals Gain in depth knowledge of the latest technologies and best practices in data center design management and operations Data Center Managers Discover strategies for optimizing performance enhancing security and ensuring compliance Technology Enthusiasts Understand the foundational concepts and future trends shaping the data center industry Structure of the Book The Modern Data Center A Comprehensive Guide is divided into five parts each focusing on a different aspect of data centers Foundations of Data Centers Covers the historical evolution core components and architectural frameworks Design and Planning Discusses site selection design principles and capacity planning Technologies and Trends Explores virtualization cloud computing automation and networking innovations Operations and Management Details day to day operations monitoring security and compliance Future Directions Looks at emerging technologies sustainability and future trends in data center development Key Topics Covered Historical Context Learn about the origins and development of data centers Core Components Understand the essential elements that make up a data center Modern Architectures Explore traditional and cutting edge data center architectures Design and Efficiency Discover best practices for designing scalable and sustainable data centers Operational Excellence Gain insights into effective data center management and operations Technological Innovations Stay updated on the latest trends and technologies transforming data centers Future Insights Prepare for the future with predictions and expert insights into the next generation of data centers Our Journey Together As we embark on this journey through the world of modern data centers you will gain a comprehensive understanding of how these critical infrastructures operate evolve and shape the future of technology Each chapter builds on the last providing a layered approach to learning that ensures you have a well rounded grasp of both the theoretical and practical aspects of data centers Thank you for choosing The Modern Data Center A Comprehensive Guide Let s dive into the intricate and fascinating world of data centers where technology innovation and strategic planning converge to power the digital age [The Data Centers Handbook - Everything You Need To Know About Data Centers](#) George Palmer,2016 The Data centers Handbook Everything You Need To Know About Data centers **The Data Center Handbook - Everything You Need To Know About Data Center** Jean Davenport,2016 The Data center Handbook Everything You Need To Know About Data center [DATA CENTER HANDBK - EVERYTHIN](#) Jean Davenport,2016-11-20 The creation of Data center results has always been regarded as a process that requires hard work and luck often at the expense of others In this remarkable book Jean Davenport reveals how to align Data center with the subtle yet powerful unseen forces that affect the flow of Data center results in our lives PLUS INCLUDED with your purchase are real life document resources this kit is available for instant

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**Fundamentals of Modern Manufacturing** Mikell P. Groover,2016-01-11 Fundamentals of Modern Manufacturing Materials Processes and Systems 6th Edition is designed for a first course or two course sequence in Manufacturing at the junior level in Mechanical Industrial and Manufacturing Engineering curricula As in preceding editions the author s objective is to provide a treatment of manufacturing that is modern and quantitative The book s modern approach is based on balanced coverage of the basic engineering materials the inclusion of recently developed manufacturing processes and comprehensive coverage of electronics manufacturing technologies The quantitative focus of the text is displayed in its emphasis on manufacturing science and its greater use of mathematical models and quantitative end of chapter problems *Handbook for MAP* ,1987

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