

SECOND EDITION

DATA CENTER HANDBOOK

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

HWAIYU GENG P.E.



WILEY

Data Center Handbook

Lei Shi



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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

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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**

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The Data centers Handbook Everything You Need To Know About Data centers *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.

Enterprise Operations Management Handbook, Second Edition

Steven F. Blanding, 2020-10-14

The **Enterprise Operations Management Handbook** provides the expert advice and guidance of hundreds of leading computing practitioners and consultants. Covering all major areas of enterprise operations management, this edition provides essential information for managing a modern, evolving data center. Topics include business issues, technology issues, and operational issues. This current practical reference also reviews such critical areas as strategic planning, data center management, data center controls systems, planning network technology, contingency planning, human

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