

# Data Center Handbook

By Hwaiyu Geng



**Data Center Handbook** By Hwaiyu Geng


**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.

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From the Back Cover

#### **Provides the fundamentals, technologies, and best practices in designing, constructing and managing mission critical, energy efficient data centers**

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#### About the Author

**Hwaiyu Geng, P.E.**, 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, HP, and Intel on multi-million high-tech projects. He has written and presented numerous technical papers at DatacenterDynamics, ASME and IIE conferences, and is also the editor/author of Manufacturing Engineering Handbook (McGraw Hill, 2004), Semiconductor Manufacturing Handbook (McGraw Hill, 2005), and Data Center Handbook (Wiley, 2014). He is a patent holder.

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