

Data Center Power And Cooling White Paper Cisco

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Air Flow Management in Raised Floor Data Centers - Vaibhav K. Arghode 2015-11-23

The Brief discuss primarily two aspects of air flow management in raised floor data centers. Firstly, cooling air delivery through perforated tiles will be examined and influence of the tile geometry on flow field development and hot air entrainment above perforated tiles will be discussed. Secondly, the use of cold aisle containment to physically separate hot and cold regions, and minimize hot and cold air mixing will be presented. Both experimental investigations and computational efforts are discussed and development of computational fluid dynamics (CFD) based models for simulating air flow in data centers is included. In addition, metrology tools for facility scale air velocity and temperature measurement, and air flow rate measurement through perforated floor tiles and server racks are examined and the authors present thermodynamics-based models to gauge the effectiveness and importance of air flow management schemes in data centers.

Control and Optimization Methods for Electric Smart Grids - Aranya Chakraborty 2011-12-17

Control and Optimization Methods for Electric Smart Grids brings together leading experts in power, control and communication systems, and consolidates some of the most promising recent research in smart grid modeling, control and optimization in hopes of laying the foundation for future advances in this critical field of study. The contents comprise eighteen essays addressing wide varieties of control-theoretic problems for tomorrow's power grid. Topics covered include control architectures for power system networks with large-scale penetration of renewable energy and plug-in vehicles, optimal demand response, new modeling methods for electricity markets, cyber-security, data analysis and wide-area control using synchronized phasor measurements.

Cybernetics and Mathematics Applications in Intelligent Systems - Radek Silhavy 2017-04-07

This book presents new methods for and approaches to real-world problems as well as exploratory research describing novel mathematics and cybernetics applications in intelligent systems. It focuses on modern trends in selected fields of technological systems and automation control theory. It also introduces new algorithms, methods and applications of intelligent systems in automation, technological and industrial applications. This book constitutes the refereed proceedings of the Cybernetics and Mathematics Applications in Intelligent Systems Section of the 6th Computer Science On-line Conference 2017 (CSOC 2017), held in April 2017.

Computerworld - 2007-03-12

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Energy Efficient Thermal Management of Data Centers - Yogendra Joshi 2012-03-23

Energy Efficient Thermal Management of Data Centers examines energy flow in today's data centers. Particular focus is given to the state-of-the-art thermal management and thermal design approaches now being implemented across the multiple length scales involved. The impact of future trends in information technology hardware, and emerging software paradigms such as cloud computing and virtualization, on thermal management are also addressed. The book explores

computational and experimental characterization approaches for determining temperature and air flow patterns within data centers. Thermodynamic analyses using the second law to improve energy efficiency are introduced and used in proposing improvements in cooling methodologies. Reduced-order modeling and robust multi-objective design of next generation data centers are discussed.

Computerworld - 2007-08-13

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Encyclopedia of Information Science and Technology, Third Edition - Khosrow-Pour, Mehdi 2014-07-31

"This 10-volume compilation of authoritative, research-based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities, prospective solutions, and future directions in the field of information science and technology"--Provided by publisher.

Security, Privacy and Trust in Cloud Systems - Surya Nepal 2013-09-03

The book compiles technologies for enhancing and provisioning security, privacy and trust in cloud systems based on Quality of Service requirements. It is a timely contribution to a field that is gaining considerable research interest, momentum, and provides a comprehensive coverage of technologies related to cloud security, privacy and trust. In particular, the book includes - Cloud security fundamentals and related technologies to-date, with a comprehensive coverage of evolution, current landscape, and future roadmap. - A smooth organization with introductory, advanced and specialist content, i.e. from basics of security, privacy and trust in cloud systems, to advanced cartographic techniques, case studies covering both social and technological aspects, and advanced platforms. - Case studies written by professionals and/or industrial researchers. - Inclusion of a section on Cloud security and eGovernance tutorial that can be used for knowledge transfer and teaching purpose. - Identification of open research issues to help practitioners and researchers. The book is a timely topic for readers, including practicing engineers and academics, in the domains related to the engineering, science, and art of building networks and networked applications. Specifically, upon reading this book, audiences will perceive the following benefits: 1. Learn the state-of-the-art in research and development on cloud security, privacy and trust. 2. Obtain a future roadmap by learning open research issues. 3. Gather the background knowledge to tackle key problems, whose solutions will enhance the evolution of next-generation secure cloud systems.

Cloud Data Centers and Cost Modeling - Caesar Wu 2015-02-27

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

The Greening of IT - John Lamb 2009-03-30

Ho> For CEOs, CIOs, CFOs, and IT leaders: The green IT business case and best practices for making it happen Timely help for companies facing rising energy costs, new government rules, and growing public concern Powerful new insights from IBM's breakthrough \$1 billion green computing initiative Chances are your enterprise IT organization has a significant carbon footprint. In an era of unpredictable energy costs, reducing energy usage throughout your data centers and IT infrastructure represents a powerful cost-cutting opportunity. Now, a top green IT expert shows business and IT leaders how to drive powerful business value by improving IT's environmental performance. Drawing on leading-edge experience, John Lamb helps you realistically assess the business case for green IT, set priorities, and overcome the internal and external challenges to making it work. He offers proven solutions for issues ranging from organizational obstacles to executive motivation and discusses crucial issues ranging from utility rate incentives to metrics. Along the way, you'll discover energy-saving opportunities—from virtualization and consolidation to cloud and grid computing—and solutions that will improve business flexibility as they reduce environmental impact. Lamb presents case studies, checklists, and more—all the practical guidance you need to drive maximum bottom-line value from your green IT initiative.

IT Manager's Handbook - Bill Holtsnider 2010-07-26

IT Manager's Handbook, Second Edition, provides essential information to help students understand the responsibilities of today's IT Management professionals: not only planning network security and implementing disaster recovery plans, but also such vital tasks as creating budgets, administering compliance, and managing staff. In particular, the book discusses business practices that are most critical to effective IT operations: recruiting, budgeting, resource planning, managing personnel, and working with vendor. This updated version includes expanded coverage on such critical IT management topics as security, disaster recovery, storage, government/regulatory compliance, and project management. Information is organized modularly so that instructors and students can delve directly into only the topics needed. Each chapter contains additional resources sections for books, articles, and websites relevant to that topic. It contains new material on key technology topics such as open source, outsourcing, offshoring, and handhelds, plus updated coverage of e-commerce, remote access, intranets, and LAN/WAN management. A completely updated and expanded second edition that provides practical, easily accessible management advice written specifically for new IT managers: · Brings you up to speed on those business practices most critical to effective IT operations: recruiting, budgeting, resource planning, managing personnel, and working with vendors. · Includes expanded coverage on such critical IT management topics as security, disaster recovery, storage, government/regulatory compliance, and project management. · Organizes information modularly so you can delve directly into only the topics that you need. · Provides a unique management perspective on those specific technical issues with the most significant business ramifications. · Includes new material on key technology topics such as open source, wireless, handhelds, outsourcing, offshoring, and operations, as well as updated coverage of e-commerce, remote access, intranets, and LAN/WAN management.

Optimum Cooling of Data Centers - Jun Dai 2013-11-20

This book describes the use of free air cooling to improve the efficiency of, and cooling of, equipment for use in telecom infrastructures. Discussed at length is the cooling of communication installation rooms such as data centers or base stations, and this is intended as a valuable tool for the people designing and manufacturing key parts of communication networks. This book provides an introduction to current cooling methods used for energy reduction, and also compares present cooling methods in use in the field. The qualification methods and standard reliability assessments are reviewed, and their inability to assess the risks of free air cooling is discussed. The method of identifying the risks associated with free air cooling on equipment performance and reliability is introduced. A novel method of assessment for free air cooling is also proposed that utilizes prognostics and health management (PHM). This book also: Describes how the implementation of free air cooling can save energy for cooling within the telecommunications

infrastructure. Analyzes the potential risks and failures of mechanisms possible in the implementation of free air cooling, which benefits manufacturers and equipment designers. Presents prognostics-based assessments to identify and mitigate the risks of telecommunications equipment under free air cooling conditions, which can provide the early warning of equipment failures at operation stage without disturbing the data centers' service. Optimum Cooling for Data Centers is an ideal book for researchers and engineers interested in designing and manufacturing equipment for use in telecom infrastructures.

Smarter Data Centers: Achieving Greater Efficiency - Mike Ebberts 2011-10-21

As we move towards becoming a smarter planet and the world becomes more instrumented, interconnected, and intelligent, the demands for data center resources are increasing rapidly. Smaller and more densely packed servers providing greater amounts of computing power can substantially increase power and cooling needs, while growing data volumes necessitate larger storage and network bandwidth capacities. Environmental and regulatory requirements can introduce additional limits on carbon emissions and water consumption. To satisfy these demands while keeping costs in check, our data centers need to be smarter as well. Comprehensive views of data center inventories, operational and environmental conditions, and consumption across multiple capacity types that span both facilities and IT are required. You can achieve greater efficiency using hardware, software, services, and design both in facilities and IT, but you need a comprehensive data center strategy to tie them together and thus obtain a complete picture of your data center environments. This IBM® Redpaper™ publication discusses important considerations when creating and implementing your smarter data center strategy. Notable techniques, best practices, and technological advances that can become critical components of success are included, along with methods for bringing them together to gain in-depth knowledge of data center operations. With such insight comes increased resiliency, rapid responsiveness, profitable access to detailed analytics, and reliable planning for the future. Although not all-inclusive, this document provides a guide to getting started, points you to additional sources of information, and suggests ways IBM can partner with you in your pursuit of a smarter data center.

PUE - Amer Society of Heating 2013

"Simplifies the absorption and use of the PUE metric and allows executives to gain understanding of the concepts surrounding PUE, while providing application knowledge and resources to those implementing and reporting data center metrics"--

Computerworld - 2007-07-09

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Cloud Control Systems - Magdi S. Mahmoud 2020-01-14

Cloud Control Systems: Analysis, Design and Estimation introduces readers to the basic definitions and various new developments in the growing field of cloud control systems (CCS). The book begins with an overview of cloud control systems (CCS) fundamentals, which will help beginners to better understand the depth and scope of the field. It then discusses current techniques and developments in CCS, including event-triggered cloud control, predictive cloud control, fault-tolerant and diagnosis cloud control, cloud estimation methods, and secure control/estimation under cyberattacks. This book benefits all researchers including professors, postgraduate students and engineers who are interested in modern control theory, robust control, multi-agents control. Offers insights into the innovative application of cloud computing principles to control and automation systems Provides an overview of cloud control systems (CCS) fundamentals and introduces current techniques and developments in CCS Investigates distributed denial of service attacks, false data injection attacks, resilient design under cyberattacks, and safety assurance under stealthy cyberattacks

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Encyclopedia Of Thermal Packaging, Set 2: Thermal Packaging Tools (A 4-volume Set) - 2014-10-23

Please click here for information on Set 1: Thermal Packaging

Techniques Thermal and mechanical packaging -- the enabling technologies for the physical implementation of electronic systems -- are responsible for much of the progress in miniaturization, reliability, and functional density achieved by electronic, microelectronic, and nanoelectronic products during the past 50 years. The inherent inefficiency of electronic devices and their sensitivity to heat have placed thermal packaging on the critical path of nearly every product development effort in traditional, as well as emerging, electronic product categories. Successful thermal packaging is the key differentiator in electronic products, as diverse as supercomputers and cell phones, and continues to be of pivotal importance in the refinement of traditional products and in the development of products for new applications. The Encyclopedia of Thermal Packaging, compiled in four multi-volume sets (Set 1: Thermal Packaging Techniques, Set 2: Thermal Packaging Tools, Set 3: Thermal Packaging Applications, and Set 4: Thermal Packaging Configurations) will provide a comprehensive, one-stop treatment of the techniques, tools, applications, and configurations of electronic thermal packaging. Each of the author-written sets presents the accumulated wisdom and shared perspectives of a few luminaries in the thermal management of electronics. Set 2: Thermal Packaging Tools The second set in the encyclopedia, Thermal Packaging Tools, includes volumes dedicated to thermal design of data centers, techniques and models for the design and optimization of heat sinks, the development and use of reduced-order "compact" thermal models of electronic components, a database of critical material thermal properties, and a comprehensive exploration of thermally-informed electronic design. The numerical and analytical techniques described in these volumes are among the primary tools used by thermal packaging practitioners and researchers to accelerate product and system development and achieve "correct by design" thermal packaging solutions. The four sets in the Encyclopedia of Thermal Packaging will provide the novice and student with a complete reference for a quick ascent on the thermal packaging "learning curve," the practitioner with a validated set of techniques and tools to face every challenge, and researchers with a clear definition of the state-of-the-art and emerging needs to guide their future efforts. This encyclopedia will, thus, be of great interest to packaging engineers, electronic product development engineers, and product managers, as well as to researchers in thermal management of electronic and photonic components and systems, and most beneficial to undergraduate and graduate students studying mechanical, electrical, and electronic engineering. Foreword Foreword (English) (42 KB) Foreword (Japanese) (342 KB) Please click here for information on Set 1: Thermal Packaging Techniques Thermal and mechanical packaging -- the enabling technologies for the physical implementation of electronic systems -- are responsible for much of the progress in miniaturization, reliability, and functional density achieved by electronic, microelectronic, and nanoelectronic products during the past 50 years. The inherent inefficiency of electronic devices and their sensitivity to heat have placed thermal packaging on the critical path of nearly e

[IT Expert Magazine V1E2](#) -

EXIN Green IT Foundation - Workbook - Van Haren Publishing 2018

Fully prepare yourself for the EXIN Green IT Foundation exam and certification. See all the benefits of the EXIN Green IT Foundation certification. Benefits for candidates: - Increased employability prospects - Expand into new 'Green' verticals - Non-technical, practical approach Benefits for companies: - Increase efficiency, reduce costs - Create critical mass for Green / Smart initiatives - Align IT and CSR (Corporate social responsibility) policies - Reduce the environmental and economic footprint - Improve corporate image Benefits for governments: - Demonstrate thought leadership - Encourage resource conservation - Develop 21st century workforce competences

Energy Efficient Data Centers - Sonja Klingert 2015-02-13

This book constitutes the thoroughly refereed post-conference proceedings of the Third International Workshop on Energy Efficient Data Centers, E2DC 2014, held in Cambridge, UK, in June 2014. The 10 revised full papers presented were carefully selected from numerous submissions. They are organized in three topical sections named: energy optimization algorithms and models, the future role of data centres in Europe and energy efficiency metrics for data centres.

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[CIO](#) - 2004-04-15

[Computerworld](#) - 2007-05-14

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[Computerworld](#) - 2007-03-19

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[Computerworld](#) - 2007-06-18

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Energy Efficient Servers - Corey Gough 2015-04-07

Energy Efficient Servers: Blueprints for Data Center Optimization introduces engineers and IT professionals to the power management technologies and techniques used in energy efficient servers. The book includes a deep examination of different features used in processors, memory, interconnects, I/O devices, and other platform components. It outlines the power and performance impact of these features and the role firmware and software play in initialization and control. Using examples from cloud, HPC, and enterprise environments, the book demonstrates how various power management technologies are utilized across a range of server utilization. It teaches the reader how to monitor, analyze, and optimize their environment to best suit their needs. It shares optimization techniques used by data center administrators and system optimization experts at the world's most advanced data centers.

Pervasive Computing - Ciprian Dobre 2016-05-06

Pervasive Computing: Next Generation Platforms for Intelligent Data Collection presents current advances and state-of-the-art work on methods, techniques, and algorithms designed to support pervasive collection of data under ubiquitous networks of devices able to intelligently collaborate towards common goals. Using numerous illustrative examples and following both theoretical and practical results the authors discuss: a coherent and realistic image of today's architectures, techniques, protocols, components, orchestration, choreography, and developments related to pervasive computing components for intelligently collecting data, resource, and data management issues; the importance of data security and privacy in the era of big data; the benefits of pervasive computing and the development process for scientific and commercial applications and platforms to support them in this field. Pervasive computing has developed technology that allows sensing, computing, and wireless communication to be embedded in everyday objects, from cell phones to running shoes, enabling a range of context-aware applications. Pervasive computing is supported by technology able to acquire and make use of the ubiquitous data sensed or produced by many sensors blended into our environment, designed to make available a wide range of new context-aware applications and systems. While such applications and systems are useful, the time has come to develop the next generation of pervasive computing systems. Future systems will be data oriented and need to support quality data, in terms of accuracy, latency and availability. Pervasive Computing is intended as a platform for the dissemination of research efforts and presentation of advances in the pervasive computing area, and constitutes a flagship driver towards presenting and

supporting advanced research in this area. Indexing: The books of this series are submitted to EI-Compendex and SCOPUS Offers a coherent and realistic image of today's architectures, techniques, protocols, components, orchestration, choreography, and development related to pervasive computing Explains the state-of-the-art technological solutions necessary for the development of next-generation pervasive data systems, including: components for intelligently collecting data, resource and data management issues, fault tolerance, data security, monitoring and controlling big data, and applications for pervasive context-aware processing Presents the benefits of pervasive computing, and the development process of scientific and commercial applications and platforms to support them in this field Provides numerous illustrative examples and follows both theoretical and practical results to serve as a platform for the dissemination of research advances in the pervasive computing area

Cascade Use in Technologies 2018 - Alexandra Pehlken 2018-08-14

The conference addresses general topics on how products and materials can be recycled and looks for application examples. The focus is on the areas: · Material and Energy Flow Assessment · Sustainable Mobility · Industrial Ecology with a focus on renewable energy sources or WEEE · (Re-) Manufacturing · Cascade Use and Waste Management 4.0

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Designing Green Networks and Network Operations - Daniel Minoli 2011-04-25

In recent years, socio-political trends toward environmental responsibility and the pressing need to reduce Run-the-Engine (RTE) costs have resulted in the concept of Green IT. Although a significant amount of energy is used to operate routing, switching, and transmission equipment, comparatively less attention has been paid to Green Networking. A

Mobile Computing and Sustainable Informatics - Subarna Shakya 2021-07-22

This book gathers selected high-quality research papers presented at International Conference on Mobile Computing and Sustainable Informatics (ICMCSI 2021) organized by Pulchowk Campus, Institute of Engineering, Tribhuvan University, Nepal, during 29-30 January 2021. The book discusses recent developments in mobile communication technologies ranging from mobile edge computing devices, to personalized, embedded and sustainable applications. The book covers vital topics like mobile networks, computing models, algorithms, sustainable models and advanced informatics that supports the symbiosis of mobile computing and sustainable informatics.

CIO - 2007-03-01

Proceedings of the 8th International Symposium on Heating, Ventilation and Air Conditioning - Angui Li 2013-09-24

Proceedings of the 8th International Symposium on Heating, Ventilation and Air Conditioning is based on the 8th International Symposium of the same name (ISHVAC2013), which took place in Xi'an on October 19-21, 2013. The conference series was initiated at Tsinghua University in 1991 and has since become the premier international HVAC conference initiated in China, playing a significant part in the development of HVAC and indoor environmental research and industry around the world. This international conference provided an exclusive opportunity for policy-makers, designers, researchers, engineers and managers to share their experience. Considering the recent attention on building energy consumption and indoor environments, ISHVAC2013 provided a global platform for discussing recent research on and developments in different aspects of HVAC systems and components, with a focus on building energy consumption, energy efficiency and indoor environments. These categories span a broad range of topics, and the proceedings provide readers with a good general overview of recent advances in different aspects of HVAC systems and related research. As such, they offer a unique resource for further research and a valuable source of information for those interested in the subject. The proceedings are intended for researchers, engineers and graduate students in the fields of Heating, Ventilation and Air Conditioning (HVAC), indoor environments, energy systems, and building information and management. Angui Li works at Xi'an University of Architecture and Technology, Yingxin Zhu works at Tsinghua University and Yuguo Li works at The University of Hong Kong.

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.

Computerworld - 2007-06-04

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Green Data Centers Monthly Newsletter February 2010 -