

Data Transfer Solutions

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High Performance Computing and Communications DIANE Publishing

Unlock the power of Amazon Web Services (AWS) with our comprehensive guide. Whether you're just starting your journey in the world of cloud computing or you're an experienced professional looking to enhance your skills, this book is your essential companion. Inside, you'll find step-by-step tutorials, best practices, and real-world examples that demystify the AWS platform. Learn how to design scalable architectures, master essential services, and secure your cloud environment. With this guide, you'll be equipped to build, deploy, and manage applications with confidence in the AWS cloud. Join the ranks of successful cloud professionals who've harnessed AWS to drive innovation and efficiency. Whether you're pursuing AWS certifications or striving for cloud excellence, our guide will help you navigate the cloud landscape, maximize your potential, and succeed in your AWS endeavors. Start your AWS journey today and become an AWS expert tomorrow!

Wearable Electronics and Photonics IOS Press

A second-order time-asymptotic solution to radiation-coupled stagnation-region flows is presented. The solution is applied to the hypervelocity flow over blunt vehicles of inviscid, nonconducting, equilibrium air, emitting and absorbing nongray radiation. Velocities, nose radii, and altitudes covered by the analysis are sufficient to bracket reentry trajectories of current interest. Radiative heat-transfer rates for the range of interest and typical profiles of pressure, density, enthalpy, temperature, and velocity are shown. The nature of time-asymptotic solution is discussed and it is shown to be a feasible means of achieving second-order accurate solutions to radiation-coupled shock-layer flows. Step-function models of the absorption coefficient are used in order to evaluate the divergence of the radiation flux vector. An analysis is carried out to determine what effect variations in the spectral complexity of the step model absorption coefficients used in the analysis will have on the thermodynamic and flow profiles of interest and on the nongray radiative heat-transfer rates. In this connection use is made of consistent model absorption coefficients having one to nine spectral steps with free-free, free-bound (including atomic line transitions), and molecular transitions taken into account. Relatively simple models of the absorption coefficient can be used with no significant loss of accuracy. An existing correlation for the cooling factor, the ratio of the radiation heat-transfer rate to the adiabatic radiation heat-transfer rate, is extended to larger velocities than heretofore considered.

AWS in ACTION Part -1 MTH Multimedia S.L.

Contemporary High Performance Computing: From Petascale toward Exascale, Volume 3 focuses on the ecosystems surrounding the world's leading centers for high performance computing (HPC). It covers many of the important factors involved in each ecosystem: computer architectures, software, applications, facilities, and sponsors. This third volume will be a continuation of the two previous volumes, and will include other HPC ecosystems using the same chapter outline: description of a flagship system, major application workloads, facilities, and sponsors. Features: Describes many prominent, international systems in HPC from 2015 through 2017 including each system's hardware and software architecture Covers facilities for each system including power and cooling Presents application workloads for each site Discusses historic and projected trends in technology and applications Includes contributions from leading experts Designed for researchers and students in high performance computing, computational science, and related areas, this book provides a valuable guide to the state-of-the art research, trends, and resources in the world of HPC.

Joe Celko's Analytics and OLAP in SQL Cybellium Ltd

Unlock the Power of Cloud Infrastructure with "IaaS Mastery" Book Bundle! Are you ready to conquer the dynamic world of cloud infrastructure? Look no further than the "IaaS Mastery: Infrastructure as a Service" book bundle, your comprehensive guide to mastering cloud technology with a focus on the industry's leading providers. Discover What's Inside: Book 1 - IaaS Fundamentals: A Beginner's Guide to Cloud Infrastructure Begin your journey with a solid foundation. Learn the essentials of cloud computing and understand the core principles of Infrastructure as a Service. Perfect for newcomers and those seeking a refresher on cloud basics. Book 2 - Mastering IaaS: Building Scalable Cloud Solutions with AWS and GCE Dive into practical applications with Amazon Web Services (AWS) and Google Cloud Engine (GCE). Gain hands-on experience in creating scalable and resilient cloud solutions using these renowned platforms. Book 3 - Advanced IaaS Architectures: Optimizing Microsoft Azure for Enterprises Elevate your expertise with a deep dive into Microsoft Azure.

Explore advanced topics such as high-performance networks, scalable compute solutions, security measures, and automation tailored for enterprise workloads. Book 4 - IaaS Expertise: Harnessing the Power of IBM Cloud for Enterprise Solutions Unleash the potential of IBM Cloud as a tool for enterprise transformation. Discover infrastructure offerings, networking strategies, security features, and advanced automation capabilities. Real-world enterprise success stories provide valuable insights. Why Choose "IaaS Mastery"? · Comprehensive Coverage: From beginner to expert, this bundle covers everything you need to know about IaaS. · Hands-On Experience: Practical examples and real-world scenarios ensure you're ready to apply your knowledge. · Top Cloud Providers: Learn from the best—AWS, GCE, Microsoft Azure, and IBM Cloud. · Enterprise Focus: Equip yourself with skills tailored for the demands of large organizations. · Future-Proof Your Career: Cloud technology is the future; stay ahead of the curve with this invaluable resource. Don't miss this opportunity to become an IaaS expert. Whether you're an IT professional, aspiring cloud enthusiast, or business leader, "IaaS Mastery" empowers you with the knowledge and skills to succeed in the digital age. Purchase the bundle today and embark on your journey to mastering cloud infrastructure!

Eel Technical Accomplishments, 1998 Rob Botwright

This book presents current trends that are dominating technology and society, including privacy, high performance computing in the cloud, networking and IoT, and bioinformatics. By providing chapters detailing accessible descriptions of the research frontiers in each of these domains, the reader is provided with a unique understanding of what is currently feasible. Readers are also given a vision of what these technologies can be expected to produce in the near future. The topics are covered comprehensively by experts in respective areas. Each section includes an overview that puts the research topics in perspective and integrates the sections into an overview of how technology is evolving. The book represents the proceedings of the International Symposium on Sensor Networks, Systems and Security, August 31 – September 2, 2017, Lakeland Florida.

Computerworld John Wiley & Sons

The Electronics and Electrical Engineering Laboratory (EEEL), working in concert with other NIST Laboratories, is providing measurement and other generic technology critical to the competitiveness of the U.S. electronics industry and the U.S. electricity-equipment industry. This report summarizes selected technical accomplishments and describes activities conducted by the Lab in FY 1998. Also included are profiles of EEEL's organization, customer interactions, and long-term goals. Appendix includes crosswalk of EEEL programs and projects; EEEL FY1998 resources; EEEL FY1998 CRADAS; and EEEL organization chart.

GPU Solutions to Multi-scale Problems in Science and Engineering Morgan Kaufmann

As one of the results of an ambitious project, this handbook provides a well-structured directory of globally available software tools in the area of Integrated Computational Materials Engineering (ICME). The compilation covers models, software tools, and numerical methods allowing describing electronic, atomistic, and mesoscopic phenomena, which in their combination determine the microstructure and the properties of materials. It reaches out to simulations of component manufacture comprising primary shaping, forming, joining, coating, heat treatment, and machining processes. Models and tools addressing the in-service behavior like fatigue, corrosion, and eventually recycling complete the compilation. An introductory overview is provided for each of these different modelling areas highlighting the relevant phenomena and also discussing the current state for the different simulation approaches. A must-have for researchers, application engineers, and simulation software providers seeking a holistic overview about the current state of the art in a huge variety of modelling topics. This handbook equally serves as a reference manual for academic and commercial software developers and providers, for industrial users of simulation software, and for decision makers seeking to optimize their production by simulations. In view of its sound introductions into the different fields of materials physics, materials chemistry, materials engineering and materials processing it also serves as a tutorial for students in the emerging discipline of ICME, which requires a broad view on things and at least a basic education in adjacent fields.

The Cloud Computing Journey IBM Redbooks

Welcome to the forefront of knowledge with Cybellium, your trusted partner in mastering the cutting-edge fields of IT, Artificial Intelligence, Cyber Security, Business, Economics and Science. Designed for professionals, students, and enthusiasts alike, our comprehensive books empower you to stay ahead in a rapidly evolving digital world. * Expert Insights: Our books provide deep, actionable insights that bridge the gap between theory and practical application. * Up-to-Date Content: Stay current with the latest advancements, trends, and best practices in IT, AI, Cybersecurity, Business, Economics and Science. Each guide is regularly updated to reflect the newest developments and challenges. * Comprehensive Coverage: Whether you're a beginner or an advanced learner, Cybellium books cover a wide range of topics, from foundational principles to specialized knowledge, tailored to your level of expertise. Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey. www.cybellium.com

Joe Celko's Thinking in Sets: Auxiliary, Temporal, and Virtual Tables in SQL Springer Science & Business Media

This book constitutes the refereed proceedings of the Second International Conference on High Performance Computing and Communications, HPCC 2006. The book presents 95 revised full papers, addressing all current issues of parallel and distributed systems and high performance computing and communication. Coverage includes networking protocols, routing, and algorithms, languages and compilers for HPC, parallel and distributed architectures and algorithms, wireless, mobile and pervasive computing, Web services, peer-to-peer computing, and more.

Signal Walter de Gruyter GmbH & Co KG

From fundamentals and design patterns to the latest techniques such as generative AI, machine learning and cloud native architecture, gain all you need to be a pro Solutions Architect crafting secure and reliable AWS architecture. Key Features Hits all the key areas -Rajesh Sheth, VP, Elastic Block Store, AWS Offers the knowledge you need to succeed in the evolving landscape of tech architecture - Luis Lopez Soria, Senior Specialist Solutions Architect, Google A valuable resource for enterprise strategists looking to build resilient applications - Cher Simon, Principal Solutions Architect, AWS Book DescriptionBuild a strong foundation in solution architecture and excel in your career with the Solutions Architect's Handbook. Authored by seasoned AWS technology leaders Saurabh Shrivastav and Neelanjali Srivastav, this book goes beyond traditional certification guides, offering in-depth insights and advanced techniques to meet the specific needs and challenges of solutions architects today. This edition introduces exciting new features that keep you at the forefront of this evolving field. From large language models and generative AI to deep learning innovations, these cutting-edge advancements are shaping the future of technology. Key topics such as cloud-native architecture, data engineering architecture, cloud optimization, mainframe modernization, and building cost-efficient, secure architectures remain essential today. This book covers both emerging and foundational technologies, guiding you through solution architecture design with key principles and providing the knowledge you need to

succeed as a Solutions Architect. It also sharpens your soft skills, providing career-accelerating techniques to stay ahead. By the end of this book, you will be able to harness cutting-edge technologies, apply practical insights from real-world scenarios, and enhance your solution architecture skills with the Solutions Architect's Handbook. What you will learn Explore various roles of a solutions architect in the enterprise Apply design principles for high-performance, cost-effective solutions Choose the best strategies to secure your architectures and boost availability Develop a DevOps and CloudOps mindset for collaboration, operational efficiency, and streamlined production Apply machine learning, data engineering, LLMs, and generative AI for improved security and performance Modernize legacy systems into cloud-native architectures with proven real-world strategies Master key solutions architect soft skills Who this book is for This book is for software developers, system engineers, DevOps engineers, architects, and team leaders who already work in the IT industry and aspire to become solutions architect professionals. Solutions architects who want to expand their skillset or get a better understanding of new technologies will also learn valuable new skills. To get started, you'll need a good understanding of the real-world software development process and some awareness of cloud technology.

[International Geographic Information Systems \(IGIS\) Symposium Springer](#)

"Managers are often far from the real action, so they need something that will tell them what is going on... Luckily, the rapid evolution of tools for collecting, analyzing and diffusing information has greatly improved our ability to manage from a distance. However the speed of technological change means that changes in management practices and tools are inescapable." Development of Management Information Systems (MIS) for social funds has become essential due to some of the characteristics unique to these types of projects or organizations. Among these unique characteristics are the need for transparency and efficiency because of the highly visible nature of the activities. These guidelines define MIS and underscore its importance. They also outline specific tools to assist in selection of an MIS and summarize its design and implementation. These guidelines are meant to be a practical tool to help those who are setting up or managing a social fund navigate in MIS waters. Technical jargon is kept to a minimum and a glossary of technical terms is provided to assist readers who do not have a technical background. However, special Technical Boxes have been included for the "experts" in this field.

[Supercomputing Frontiers BookRix](#)

[AWS Certification Guide - AWS Certified Developer – Associate Master the Art of AWS Development Dive into the dynamic world of AWS with this essential guide tailored for aspiring AWS Certified Developers – Associate. Whether you're a novice or an experienced developer, this book will provide you with a thorough understanding of AWS services and best practices in cloud-based application development. Inside, You Will Find: Comprehensive Coverage: Detailed exploration of AWS core services, SDKs, and APIs, essential for developing robust cloud applications. Hands-On Learning: Practical examples and real-life scenarios that guide you through creating, deploying, and optimizing applications on AWS. Exam Preparation Toolkit: In-depth guidance on the exam format, key topics, and numerous practice questions to ensure you're fully prepared for the certification test. Latest Trends and Techniques: Insights into the newest AWS features and how to leverage them for cutting-edge application development. Expertly Crafted by a Seasoned Developer Authored by an experienced AWS developer, this guide combines practical knowledge with insightful tips to help you navigate the AWS development landscape with ease. Your Pathway to AWS Developer Certification This book is not just a study guide; it's a comprehensive resource for understanding AWS development practices, helping you build a solid foundation in cloud application development and preparing you for a successful certification journey. Elevate Your Developer Skills Step up your development game. This guide is designed to equip you with the skills and knowledge needed to excel in the AWS ecosystem and become a certified AWS Developer – Associate. Start Your AWS Development Journey Today Embrace your passion for cloud development. This guide is your first step towards achieving AWS certification and advancing your career in the exciting field of cloud computing. © 2023 Cybellium Ltd. All rights reserved. \[www.cybellium.com\]\(http://www.cybellium.com\)](#)

[Information, Communication and Computing Technology Rob Botwright](#)

InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

[PaaS, IaaS, And SaaS: Complete Cloud Infrastructure Cybellium Ltd](#)

This book covers the new topic of GPU computing with many applications involved, taken from diverse fields such as networking, seismology, fluid mechanics, nano-materials, data-mining, earthquakes, mantle convection, visualization. It will show the public why GPU computing is important and easy to use. It will offer a reason why GPU computing is useful and how to implement codes in an everyday situation.

[Business Ecosystems John Wiley & Sons](#)

Elevate your expertise and gain holistic insights into cloud technology with a focus on smoothly transitioning from on-premises to the cloud Key Features Analyze cloud architecture in depth, including different layers, components, and design principles Explore various types of cloud services from AWS, Microsoft Azure, Google Cloud, Oracle Cloud Infrastructure, and more Implement best practices and understand the use of various cloud deployment tools Purchase of the print or Kindle book includes a free PDF eBook Book Description As the need for digital transformation and remote work surges, so does the demand for cloud computing. However, the complexity of cloud architecture and the abundance of vendors and tools can be overwhelming for businesses. This book addresses the need for skilled professionals capable of designing, building, and managing scalable and resilient cloud systems to navigate the complex landscape of cloud computing through practical tips and strategies. This comprehensive cloud computing guide offers the expertise and best practices for evaluating different cloud vendors and tools. The first part will help you gain a thorough understanding of cloud computing basics before delving deeper into cloud architecture, its design, and implementation. Armed with this expert insight, you'll be able to avoid costly mistakes, ensure that your cloud systems are secure and compliant, and build cloud systems that can adapt and grow with the business. By the end of this book, you'll be proficient in leveraging different vendors and tools to build robust and secure cloud systems to achieve specific goals and meet business requirements. What you will learn Get to grips with the core concepts of cloud architecture and cost optimization Understand the different cloud deployment and service models Explore various cloud-related tools and technologies Discover cloud migration strategies and best practices Find out who the major cloud vendors are and what they offer Analyze the impact and future of cloud technology Who this book is for The book is for anyone interested in understanding cloud technology, including business leaders and IT professionals seeking insights into the benefits, challenges, and best practices of cloud computing. Those who are just starting to explore cloud technology, as well as those who are already using cloud technology and want to deepen their understanding to optimize usage, will find this resource especially useful.

[AWS certification guide - AWS Certified Developer - Associate World Bank Publications](#)

"this book is an excellent resource for the beginning digital photographer." —MacCompanion The Essential Companion to Your Digital Camera and Your Mac You'll be amazed at what you can create with your digital camera and your Mac. Whether you're making striking portraits or hilarious montages, this book provides the essential tools, techniques, and advice to turn you into a photo pro. Written by two Mac and digital photography experts, Mac Digital Photography explores everything essential to snapping, enhancing, and sharing great digital images. Inside you'll find expert techniques for refining your photo-taking techniques, editing and repairing your images, choosing the right camera peripherals, using your photos for fun craft projects, and sharing your creations with others across the globe or across the room. Mac Digital Photography teaches you how to: Snap high-quality photographs by concentrating on composition, lighting, and posing Enhance your

images and fix picture flaws with Photoshop Elements 2 and iPhoto Create panoramas, 3D images, and poster-sized photographs Get crafty—use your photos for T-shirts, calendars, greeting cards, tattoos, and more Share your photos via e-mail and the Web Make DVDs, picture CDs, and video CD slide shows Perform special effects such as warping, morphing, and animation Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

[PC Mag IOS Press](#)

This book constitutes the refereed proceedings of the 5th International Conference on Information, Communication and Computing Technology, ICICCT 2020, held in New Delhi, India*, in May 2020. The 24 full papers and one short paper presented in this volume were carefully reviewed and selected from 220 submissions. The papers are organized in topical sections on data communication & networking; advanced computing using machine learning. *The conference was held virtually due to the COVID-19 pandemic.

[AWS Certified Cloud Solutions Architect CRC Press](#)

Integrating electronics into clothing is a major new concept, which opens up a whole array of multi-functional, wearable electro-textiles for sensing/monitoring body functions, delivering communication facilities, data transfer, individual environment control, and many other applications. With revolutionary advancements occurring at an unprecedented rate in many fields of science and electronics the possibilities offered by wearable technologies are tremendous and widespread. These advancements will transform the world and will soon begin to permeate into commercial products. The first section of the book discusses the materials and devices used in the field, including electro-statically generated nanofibres, electroceramic fibres and composites and electroactive fabrics. It summarizes recent developments in electrically conductive fabric structures and puts together a few theoretical treatments of the electro-mechanical properties of various fabric structures. The next section reviews topics related to wearable photonics such as fibre optic sensors and integrated smart textile structures, the developments in various flexible photonic display technologies as well as looking at current communication apparel and optical fibre fabric displays. Next the book focuses on integrated structures and system architectures. Finally the issues facing a fashion designer working with wearables are explored. Wearable electronics and photonics covers many aspects of the cutting-edge research and development into this exciting field and provides a window through which only a small portion of the exciting emerging technology can be seen. With contributions from a panel of international experts in the field this is an essential guide for all electrical, textile and biomedical engineers as well as academics and fashion designers. - Stay one step ahead of the industry on this hot topic - Evaluates the major new concept of integrating electronics into clothing - Explores future trends for fashion and specialist clothing

[Research Anthology on Reliability and Safety in Aviation Systems, Spacecraft, and Air Transport Springer](#)

A business ecosystem may be defined as a dynamic group of largely independent economic players that create products or services that together constitute a coherent solution for customers. Business ecosystems are high on the agenda of many business leaders. They are now highly prevalent, frequently disruptive, and all companies should add the required capabilities to their strategy toolbox. Business Ecosystems is based on more than three years of research by the BCG Henderson Institute, their work with dozens of companies on their ecosystem strategies, and hundreds of conversations with academics, managers, investors, entrepreneurs, and government employees. Part I reviews the fundamentals of business ecosystems – definition, design, success factors, governance, strategies. Part II elaborates on special topics, such as trust and data, industry applications, and their potential for sustainability. Ecosystems might not be a solution for all problems, but they are also not a transitory phenomenon. The field is evolving fast and as the success factors for creating, managing and participating in business ecosystems are increasingly accepted and understood, many established and emerging companies have the opportunity to put themselves in a position to unlock great innovation and value creation potential by engaging in ecosystem business models. This book will support business professionals and executives on this journey.

[Syria IBM Redbooks](#)

Joe Celko's Analytics and OLAP in SQL is the first book that teaches what SQL programmers need in order to successfully make the transition from On-Line Transaction Processing (OLTP) systems into the world of On-Line Analytical Processing (OLAP). This book is not an in-depth look at particular subjects, but an overview of many subjects that will give the working RDBMS programmers a map of the terra incognita they will face — if they want to grow. It contains expert advice from a noted SQL authority and award-winning columnist, who has given ten years of service to the ANSI SQL standards committee and many more years of dependable help to readers of online forums. It offers real-world insights and lots of practical examples. It covers the OLAP extensions in SQL-99; ETL tools, OLAP features supported in DBMSs, other query tools, simple reports, and statistical software. This book is ideal for experienced SQL programmers who have worked with OLTP systems who need to learn techniques—and even some tricks—that they can use in an OLAP situation. - Expert advice from a noted SQL authority and award-winning columnist, who has given ten years of service to the ANSI SQL standards committee and many more years of dependable help to readers of online forums - First book that teaches what SQL programmers need in order to successfully make the transition from transactional systems (OLTP) into the world of data warehouse data and OLAP - Offers real-world insights and lots of practical examples - Covers the OLAP extensions in SQL-99; ETL tools, OLAP features supported in DBMSs, other query tools, simple reports, and statistical software