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With gas prices rising (always), alternative fuels look like an answer. Hybrids sound good, but what about the batteries? And fuel cells still seem to be pie-in-the-sky. Which leaves us with good old diesel. This book shows how to get the most out of the diesel engine, at a time when its fuel efficiency is almost as important as its massive torque. Although most diesel truck owners probably aren't planning to break any land speed records, advances in diesel technology, such as ultra-low-sulfur fuel, high-pressure common-rail fuel injection, electronic fuel management and variable geometry turbocharging, are bringing diesel engines into the performance arena. And this book is the ideal guide for making your diesel engine perform--adapting intake and exhaust, torque converters, engine electronics, turbochargers, and much more. This book is a educational book for information about the automotive information in the mechanical world. If you want to learn some tips and tricks in the auto field this guide is for you. "Self education is the key for success." This IBM® Redbooks® publication will help you install, tailor, and configure IBM ProtecTIER® products with IBM Tivoli® Storage Manager to harness the performance and the power of the two products working together as a data protection solution. This book goes beyond the preferred practices of each product and provides in-depth explanations of each of the items that are configurable, and the underlying reasons behind the suggestions. This book provides enough detailed information to allow an administrator to make the correct choices about which methods to use when implementing both products to meet and to exceed the business requirements. This publication provides descriptions and guidance about the following topics: Terminology and concepts of ProtecTIER and Tivoli Storage Manager Planning for ProtecTIER to run with Tivoli Storage Manager Setup and configuration of the IBM ProtecTIER device as a storage pool in the Tivoli Storage Manager environment, primarily as a Virtual Tape Library (VTL) interface, with a description as a File System Interface (FSI) Day-to-day administration of ProtecTIER when it is used in a Tivoli Storage Manager environment Overview of how to plan for disaster recovery in a ProtecTIER and Tivoli Storage Manager environment Monitoring and problem solving: How a system administrator can review ProtecTIER logs and Tivoli Storage Manager server logs to identify the source of problems Hints, tips, and use cases for ProtecTIER and Tivoli Storage Manager administrators This book is intended for storage administrators and architects who have ordered and installed IBM ProtecTIER Products and want to implement Tivoli Storage Manager as part of a data protection solution. This book is also intended for anyone that wants to learn more about applying and using the benefits of ProtecTIER running with Tivoli Storage Manager. Until recently, the complexity of the Diesel Particulate Filter (DPF) system has hindered its commercial success. Stringent regulations of diesel emissions has lead to advancements in this technology, therefore mainstreaming the use of DPFs in light- and heavy-duty diesel filtration applications. This book covers the latest and most important research in DPF systems, focusing mainly on the advancements of the years 2002-2006. Editor Timothy V. Johnson selected the top 29 SAE papers covering the most significant research in this technology. Network Algorithmics: An Interdisciplinary Approach to Designing Fast Networked Devices, Second Edition takes an interdisciplinary approach to applying principles for efficient implementation of network devices, offering solutions to the problem of network implementation bottlenecks. In designing a network device, there are dozens of decisions that affect the speed with which it will perform – sometimes for better, but sometimes for worse. The book provides a complete and coherent methodology for maximizing speed while meeting network design goals. The book is uniquely focused on the seamless integration of data structures, algorithms, operating systems and hardware/software co-designs for high-performance routers/switches and network end systems. Thoroughly updated based on courses taught by the authors over the past decade, the book lays out the bottlenecks most often encountered at four disparate levels of implementation: protocol, OS, hardware and architecture. It then develops fifteen principles key to breaking these bottlenecks, systematically applying them to bottlenecks found in end-nodes, interconnect devices and specialty functions located along the

network. Later sections discuss the inherent challenges of modern cloud computing and data center networking. Offers techniques that address common bottlenecks of interconnect devices, including routers, bridges, gateways, endnodes, and Web servers Presents many practical algorithmic concepts that students and readers can work with immediately Revised and updated throughout to discuss the latest developments from authors' courses, including measurement algorithmics, randomization, regular expression matching, and software-defined networking Includes a new, rich set of homework exercises and exam questions to facilitate classroom use This IBM® Redpaper™ publication provides suggestions, hints and tips, directions, installation steps, checklists of prerequisites, and configuration information collected from several IBM InfoSphere® Information Server experts. It is intended to minimize the time required to successfully install and configure InfoSphere Information Server. The information in this document is based on field experiences of experts who have implemented InfoSphere Information Server. As such, it is intended to supplement, and not replace, the product documentation. Discover the proven choices and combinations for installing InfoSphere Information Server that have been the most successful for the IBM InfoSphere Center Of Excellence. This paper includes a broad range of customer needs and experiences, with a focus on the following areas: InfoSphere Information Server architecture Checklists Prerequisites Configuration choices that work well together This paper is based on thousands of hours of production systems experience, from which you can now reap significant benefits. This book presents an in-depth review of the state of the art of cyber-physical systems (CPS) and their applications. Relevant case studies are also provided, to help the reader to master the interdisciplinary material. Features: includes self-test exercises in each chapter, together with a glossary; offers a variety of teaching support materials at an associated website, including a comprehensive set of slides and lecture videos; presents a brief overview of the study of systems, and embedded computing systems, before defining CPS; introduces the concepts of the Internet of Things, and ubiquitous (or pervasive) computing; reviews the design challenges of CPS, and their impact on systems and software engineering; describes the ideas behind Industry 4.0 and the revolutions in digital manufacturing, including smart and agile manufacturing, as well as cybersecurity in manufacturing; considers the social impact of the changes in skills required by the globalized, digital work environment of the future. There are many things that can go wrong with your car, but it's knowing what to do that can make the difference between a small repair, a major bill, or worse. An invaluable book covering 101 of the most common problems on modern cars, that could save you a small fortune, as well as keep your car moving. Written in plain english, with easy to follow instructions and detailed colour photos, this is not a book for mechanics, it's an essential book for all car owners. Until recently, the complexity of the Diesel Particulate Filter (DPF) system has hindered its commercial success. Stringent regulations of diesel emissions has led to advancements in this technology, therefore mainstreaming the use of DPFs in light- and heavy-duty diesel filtration applications. This book covers the latest and most important research in DPF systems, focusing mainly on the advancements of the years 2002-2006. Editor Timothy V. Johnson selected the top 29 SAE papers covering the most significant research in this technology. "Everything today's driver needs to know about choosing and using a car in an economical and eco-efficient way: buy a car that delivers the best economy and low emissions, whilst still meeting your needs; learn how to drive to get best mpg and lowest emissions; interpret government fuel data to choose your eco-efficient car; understand why 4x4 vehicles have a bad reputation for eco-efficiency; get to grips with eco-related technical matters, such as "what's a DPF?"; learn to drive automatic gearbox vehicles in an economical/efficient way; work out if you're becoming a more economical driver; use readily available information to help you become a more eco-efficient driver; the pros and cons of hybrid vehicles and alternative fuels for the ordinary driver; future alternatives for powering cars - advantages and disadvantages."--Publisher's description. The fourth edition of a classic, leading resource for the field of sport, exercise, and performance psychology Now expanded to two volumes, and featuring a wealth of new chapters from highly respected scholars in the field, this all-new edition of the Handbook of Sports Psychology draws on an international roster of experts and scholars in the field who have assembled state-of-the-art knowledge into this thorough, well-rounded, and accessible volume. Endorsed by the International Society of Sport Psychology, it represents an invaluable source of theoretical and practical information on our understanding of the role of psychology in sport, exercise, and performance—and how that understanding can be applied in order to improve real-world outcomes. Presented in eight parts, the Handbook of Sports Psychology, 4th Edition adds new material on emerging areas such as mindfulness, brain mapping, self-consciousness, and mental toughness, and covers special topics such as gender and cultural diversity, athletes with disabilities, and alcohol and drug use in sports. In addition, it covers classic topics such as what motivates an athlete to perform; why do some choke under pressure; how do top performers handle leadership roles; what does one do to mentally train; how an athlete deals with injury; and much more. Fourth edition of the most influential reference work for the field of sport psychology New coverage includes mindfulness in sport and exercise psychology, ethics, mental toughness, sport socialization, and making use of brain technologies in practice Endorsed by the International Society of Sport Psychology (ISSP) Handbook of Sports Psychology, 4th Edition is an indispensable resource for any student or professional interested in the field of sports psychology. This report describes the MACCS computer code. The purpose of this code is to simulate the impact of severe accidents at nuclear power plants on the surrounding environment. MACCS has been developed for the US Nuclear Regulatory Commission to replace the previously used CRAC2 code, and it incorporates many improvements in modeling flexibility in comparison to CRAC2. The principal phenomena considered in MACCS are atmospheric transport, mitigative actions based on dose projections, dose accumulation by a number of pathways including food and water ingestion, early and latent health effects, and economic costs. The MACCS code can be used for a variety of applications. These include (1) probabilistic risk assessment (PRA) of nuclear power plants and other nuclear facilities, (2) sensitivity studies to gain a better understanding of the parameters important to PRA, and (3) cost-benefit analysis. This report is composed of three volumes. Volume I, the User's Guide, describes the input data requirements of the MACCS code and provides directions for its use as illustrated by three sample problems. Volume II, the Model Description, describes the underlying models that are implemented in the code, and Volume III, the Programmer's Reference Manual, describes the code's structure and database management. This IBM® Redbooks® publication provides best practice guidance for planning, installing, configuring, and employing the IBM TS7600 ProtecTIER® family of products. It provides the latest best practices for the practical application of ProtecTIER Software Version 3.4. This latest release introduces the new ProtecTIER Enterprise Edition TS7650G DD6 model high performance server. This book also includes information about the revolutionary and patented IBM HyperFactor® deduplication engine, along with other data storage efficiency techniques, such as compression and defragmentation. The IBM System Storage® TS7650G ProtecTIER Deduplication Gateway and the IBM System Storage TS7620 ProtecTIER Deduplication Appliance Express are disk-based data storage systems: The Virtual Tape Library (VTL) interface is the foundation of ProtecTIER and emulates traditional automated tape libraries. For your existing ProtecTIER solution, this guide provides best practices and suggestions to boost the performance and the effectiveness of data deduplication with regards to your application platforms for your VTL and FSI (systems prior to version 3.4). When you build a ProtecTIER data deduplication environment, this guide can help IT architects and solution designers plan for the best option and scenario for data deduplication for their environments. This book can help you optimize your deduplication ratio, while reducing the hardware, power and cooling, and management costs. This Redbooks publication provides expertise that was gained from an IBM ProtecTIER System Client Technical Specialist (CTS), Development, and Quality Assurance teams. This planning should be done by the Sales Representative or IBM Business Partner, with the help of an IBM System CTS or IBM Solution Architect. The use of diesel-powered equipment in underground mining operations provides many benefits to the industry. It also presents many challenges to the health and safety of workers as it is a significant source of submicrometer aerosols and noxious gases. This book was developed to assist the coal and metal/nonmetal underground mining industries in their efforts to reduce the exposure of workers to aerosols and gases from diesel-powered equipment. It includes information collected by researchers at the National Institute for Occupational Safety and Health/Office of Mine Safety and Health Research (NIOSH/OMSHR). Prior to the production of this text, the knowledge on this complex issue was fragmented. The goal of this volume is to make the information available in one easy-to-use reference. The book includes comprehensive, mine-specific programs for use by mechanics, mine ventilation engineers, industrial hygienists, mine managers, union health and safety representatives, and personnel responsible for the acquisition of diesel vehicles, engines, exhaust aftertreatment systems, fuels, and lubricants. The description of methods to reduce exposure to diesel aerosols includes curtailment of diesel particulate matter and gaseous emissions at their source, and controlling airborne pollutants with ventilation and personal protective equipment. This information should also help researchers in industry, government, and academia to identify areas that need to be addressed in future research and development efforts. Aid instruments need to adjust to new challenges and priorities. Global pandemics, climate change, increased inequality, low economic growth, and conflict have made it increasingly difficult for developing countries to achieve the Sustainable Development Goals. Retooling Development Aid in the 21st Century: The Importance of Budget Support examines the critical role of budget support by both multilateral and bilateral aid agencies to address the 21st century's development goals of eliminating poverty and protecting our global commons. Timely and smartly designed budget support remains a powerful tool to help address the new reality developing countries face, providing fast disbursing finance in support of critical reforms. Set against the background of a dramatically changing international financial architecture, the volume examines how budget support has evolved from its controversial past, addresses the evidence on performance and debates over conditionality, and it reflects on unmet expectations from the 2005 Paris

Declaration. With the global financial crisis, the Covid pandemic, and the spillovers from conflict and climate change, budget support re-emerged as a key financing instrument to support policy reforms and catalyze private capital. Drawing on the lessons of the last two decades, the volume proposes a retooling of budget support as a versatile instrument to address both essential global public goods and tackle country-specific development challenges. One of the most cited books in physics of all time, Quantum Computation and Quantum Information remains the best textbook in this exciting field of science. This 10th anniversary edition includes an introduction from the authors setting the work in context. This comprehensive textbook describes such remarkable effects as fast quantum algorithms, quantum teleportation, quantum cryptography and quantum error-correction. Quantum mechanics and computer science are introduced before moving on to describe what a quantum computer is, how it can be used to solve problems faster than 'classical' computers and its real-world implementation. It concludes with an in-depth treatment of quantum information. Containing a wealth of figures and exercises, this well-known textbook is ideal for courses on the subject, and will interest beginning graduate students and researchers in physics, computer science, mathematics, and electrical engineering. Obtained by simulation more quickly, effective computer simulation of dynamic systems is a topic which is growing steadily in importance and cheaply than by experimentation and testing of the real system. System performance in the physical sciences, engineering, biology and medicine. The reasons for this trend can also be investigated using simulation not only to the steadily increasing need for a much wider range of conditions than can be contemplated for the real system power of computers and the rapidly falling costs of hardware, but also to the availability because of operating constraints or safety of appropriate software tools in the form of requirements. Similar factors can apply in simulation languages. Problem-oriented languages, such as biomedical systems languages, assist those who are not engineering specialists in computational methods to transform system simulation, using digital computers, can relate either to models based on continuous mathematical description into a simulation program in a simple and straightforward way or to discrete-event descriptions. They can also provide useful diagnostic information when difficulties are encountered. Therefore, a simulation language can handle differential equations and algebraic equations. This IBM® Redbooks® publication provides advice and technical information about optimizing and tuning application code to run on systems that are based on the IBM POWER7® and POWER7+™ processors. This advice is drawn from application optimization efforts across many different types of code that runs under the IBM AIX® and Linux operating systems, focusing on the more pervasive performance opportunities that are identified, and how to capitalize on them. The technical information was developed by a set of domain experts at IBM. The focus of this book is to gather the right technical information, and lay out simple guidance for optimizing code performance on the IBM POWER7 and POWER7+ systems that run the AIX or Linux operating systems. This book contains a large amount of straightforward performance optimization that can be performed with minimal effort and without previous experience or in-depth knowledge. This optimization work can: Improve the performance of the application that is being optimized for the POWER7 system. Carry over improvements to systems that are based on related processor chips. Improve performance on other platforms. The audience of this book is those personnel who are responsible for performing migration and implementation activities on IBM POWER7-based servers, which includes system administrators, system architects, network administrators, information architects, and database administrators (DBAs). Cette bibliographie commentée touche tous les domaines du savoir humain, soit de l'Art à la Zoologie; elle signale les ouvrages les plus importants soit des bibliographies, des index, des encyclopédies, des dictionnaires, des guides, des revues etc dont le support d'information est soit du papier, soit un cd-rom, soit une base de données en ligne directe, soit un microforme etc. L'objectif du guide Walford est de devenir la source d'information sur tout type de référence, nonobstant le support technique. Stroke-Survivor's Pathway of Success! COMMON COMPUTER ABBREVIATIONS Up-to-Date Reference Guide to Abbreviations in Computers and Internet By: John S. DeSousa, B.S.E.E., M.S.E.E. (Stroke-Survivor) This book has been written with non-technical individuals in mind, and every effort has been made to collect the most frequently used abbreviations. In first part of this book, few hundreds of pages are dedicated to listings of abbreviations used in Computers and Internet. In second part ten useful appendices are given as: 1. Appendix A: Electrical information to operate a computer or laptop. 2. Appendix B: SI electrical characteristic symbols. 3. Appendix C: Scientific usage of Greek Alphabet. 4. Appendix D: Decimal prefixes used in computers. 5. Appendix E: Latin and Roman numerical symbols. 6. Appendix F: "Smiley Faces" in E-mail and Newsgroup. 7. Appendix G: "Country Code E-mail" to locate origin of an E-mail. 8. Appendix H: A guide to metric measurement conversion. 9. Appendix I: US spelled words versus International English. 10. Appendix J: Inspiring and motivation words. With over 3,800 codes to every make and model of catalytic converter, including pictures, grades and prices that are extremely close to those of reputable refineries. As well as an additional section that lists even more codes in alpha-numerical order, making this latest edition a must have for both serious and novice scrap catalytic converter buyers and sellers. We have compiled the most sought after and hard to acquire codes with their values for the most common and not so common scrap catalytic converters and DPF systems. We have expanded our pricing to include 3 PLATINUM market values (\$800, \$900 and \$1,000), and have also included a chart that will show you how to adjust prices under any Platinum, Palladium and Rhodium market changes. All Buyers of this guide will also receive additional codes via email periodically! GET THE VALUE FOR EACH AND EVERY CATALYTIC CONVERTER! -KNOW WHAT THE REFINERIES KNOW! -STOP OVERPAYING AND UNDERPAYING, AND INCREASE YOUR PROFITS! People living with Parkinson's, care partners and families need reliable, practical information that inspires action to improve quality of life today and every day. The Every Victory Counts® manual is the gold standard resource to help you live well with Parkinson's and achieve your personal wellness goals. The Every Victory Counts manual plus companion website is your road map for thriving with Parkinson's from diagnosis through later stages. Written by leading movement disorder specialists, Monique Giroux, MD and Sierra Farris, PA-C, MPAS, with 40 experts in Parkinson's wellness from respected institutions in the US, Canada and Europe, this highly engaging, comprehensive resource gives you the tools and the confidence to take control and start living well today. You'll learn all the Parkinson's essentials, plus dig into dozens of topics that are frequently overlooked, yet critically important for being at your best with Parkinson's. Seventeen Parkinson's Guides share their real-life experiences living with and caring for someone living with Parkinson's and lend insight, encouragement, humor and support. The newly expanded and updated Every Victory Counts manual is available in printed form or as a digital eBook and is complemented by a companion website filled with educational and motivational videos, podcasts, worksheets and other resources to help you chart your own path to living well today with Parkinson's. This IBM® Redbooks® publication describes the IBM solution for data deduplication, the IBM System Storage® TS7650G IBM ProtecTIER® Deduplication Gateway, and the IBM TS7620 ProtecTIER Deduplication Appliance Express. This solution consists of the IBM System Storage ProtecTIER Enterprise Edition V3.3 software and the IBM System Storage TS7600 family of products. They are designed to address the disk-based data protection needs of enterprise data centers. We describe the components that make up IBM System Storage TS7600 with ProtecTIER and provide extensive planning and sizing guidance that enables you to determine your requirements and the correct configuration for your environment. We then guide you through the basic setup steps on the system and on the host. We also describe all operational tasks that are required during normal day-to-day operation or when upgrading your TS7600 products. All available models of the ProtecTIER deduplication system can now be ordered in a configuration to operate in one of the following modes for which we provide setup, configuration and usage guidelines for your business needs: The Virtual Tape Library (VTL) interface is the foundation of ProtecTIER and emulates traditional automated tape libraries. The Symantec NetBackup OpenStorage (OST) API can be integrated with Symantec NetBackup to provide backup-to-disk without having to emulate traditional tape libraries. The newly available File System Interface (FSI) supports Common Internet File System (CIFS) and Network File System (NFS) as a backup target. This publication is intended for system programmers, storage administrators, hardware and software planners, and other IT personnel that are involved in planning, implementing, and the use of the IBM deduplication solution. It also is intended for anyone seeking detailed technical information about the IBM System Storage TS7600 with ProtecTIER. The book introduces the concept of 'smart technologies', especially 'Internet of Things' (IoT), and elaborates upon various constituent technologies, their evolution and their applications to various challenging problems in society. It then presents research papers and case studies based upon inception, application and implementation of IoT-based smart technologies for various application areas from some of the most technologically conservative domains like agriculture and farming to the most advanced areas such as automobiles, financial transactions and industrial applications. The book contents is thus applicable not only to academic researcher, but also to interested readers from industries and corporates, and those involved in policy making. Excerpt from the Foreword (read the complete text on Springerlink): "This book contains besides the two introductory chapters, written by the project leaders from Indian Institute of Science (IISc) Bangalore, and TU Clausthal (TUC), Germany, the different areas of research work done within the INGPART (Indo-German Partnership in Advanced Research, founded by DAAD in Germany and UGC in India) project so far by the Indian and German young researchers. It offers new perspectives and documents important progress in smart technologies. I can say without reservation that this book and, more specifically, the method it espouses will change fundamental ideas for cutting-edge innovation and disruption in the smart technology area." - Prof. Dr. Thomas Hanschke, President, TU Clausthal, Clausthal-Zellerfeld, Germany This comprehensive text/reference presents an in-depth review of the state of the art of automotive connectivity and cybersecurity with regard to trends, technologies, innovations, and applications. The text describes the

challenges of the global automotive market, clearly showing where the multitude of innovative activities fit within the overall effort of cutting-edge automotive innovations, and provides an ideal framework for understanding the complexity of automotive connectivity and cybersecurity. Topics and features: discusses the automotive market, automotive research and development, and automotive electrical/electronic and software technology; examines connected cars and autonomous vehicles, and methodological approaches to cybersecurity to avoid cyber-attacks against vehicles; provides an overview on the automotive industry that introduces the trends driving the automotive industry towards smart mobility and autonomous driving; reviews automotive research and development, offering background on the complexity involved in developing new vehicle models; describes the technologies essential for the evolution of connected cars, such as cyber-physical systems and the Internet of Things; presents case studies on Car2Go and car sharing, car hailing and ridesharing, connected parking, and advanced driver assistance systems; includes review questions and exercises at the end of each chapter. The insights offered by this practical guide will be of great value to graduate students, academic researchers and professionals in industry seeking to learn about the advanced methodologies in automotive connectivity and cybersecurity. This book provides an introduction to the mathematical and algorithmic foundations of data science, including machine learning, high-dimensional geometry, and analysis of large networks. Topics include the counterintuitive nature of data in high dimensions, important linear algebraic techniques such as singular value decomposition, the theory of random walks and Markov chains, the fundamentals of and important algorithms for machine learning, algorithms and analysis for clustering, probabilistic models for large networks, representation learning including topic modelling and non-negative matrix factorization, wavelets and compressed sensing. Important probabilistic techniques are developed including the law of large numbers, tail inequalities, analysis of random projections, generalization guarantees in machine learning, and moment methods for analysis of phase transitions in large random graphs. Additionally, important structural and complexity measures are discussed such as matrix norms and VC-dimension. This book is suitable for both undergraduate and graduate courses in the design and analysis of algorithms for data. -- The insider's guide to table structures, cluster configuration, and other optimization opportunities. -- Provides best practices techniques for installing, configuring, and optimizing DB2 in the Solaris Operating Environment. -- Covers the new Solaris Operating Environment security features to make your databases even more secure! -- Part of the IBM Press DB2 Series. This is the only IBM insider's reference and guidebook for making the most of DB2 in Solaris enterprise environments. Coverage includes: integrating Solaris and DB2 to build more secure database applications; working with DB2's management utilities in a Solaris environment; client/server communications under Solaris; special issues and opportunities associated with running DB2 Universal Database Enterprise Edition under Solaris, and much more! The authors explain configuring Solaris and DB2 failover support and provide expert tips and techniques for DB2/Solaris performance monitoring, optimization, and troubleshooting. If you manage or develop for DB2 on Solaris, this book is critical to your success -- and you can't find it anywhere else! Straight from IBM, Advanced DBA Certification Guide and Reference for DB2 Universal Database v8 for Linux, UNIX, and Windows is the definitive guide to enterprise-class DB2 v8 administration - and the only authoritative self-study guide for IBM's new DB2 advanced DBA exam. Delivers proven techniques for enterprise-class security, user management, recovery, scalability, optimization, troubleshooting, remote administration, and more! CD-ROM: DB2 Universal Database v8 Enterprise Server Edition trial version plus complete documentation.

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