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Chemistry - McGraw-Hill Staff 2001-03

Apache Spark for the Enterprise: Setting the Business Free - Oliver Draese 2016-02-09

Analytics is increasingly an integral part of day-to-day operations at today's leading businesses, and transformation is also occurring through huge growth in mobile and digital channels. Enterprise organizations are attempting to leverage analytics in new ways and transition existing analytics capabilities to respond with more flexibility while making the most efficient use of highly valuable data science skills. The recent growth and adoption of Apache Spark as an analytics framework and platform is very timely and helps meet these challenging demands. The Apache Spark environment on IBM z/OS® and Linux on IBM z Systems™ platforms allows this analytics framework to run on the same enterprise platform as the originating sources of data and transactions that feed it. If most of the data that will be used for Apache Spark analytics, or the most sensitive or quickly changing data is originating on z/OS, then an Apache Spark z/OS based environment will be the optimal choice for performance, security, and governance. This IBM® Redpaper™ publication explores the enterprise analytics market, use of Apache Spark on IBM z Systems™ platforms, integration between Apache Spark and other enterprise data sources, and case studies and examples of what can be achieved with Apache Spark in enterprise environments. It is of interest to data scientists, data engineers, enterprise architects, or anybody looking to better understand how to combine an analytics framework and platform on enterprise systems.

Physics in Nuclear Medicine - Simon R. Cherry 2012-04-12

Physics in Nuclear Medicine - by Drs. Simon R. Cherry, James A. Sorenson, and Michael E. Phelps - provides current, comprehensive guidance on the physics underlying modern nuclear medicine and imaging using radioactively labeled tracers. This revised and updated fourth edition features a new full-color layout, as well as the latest information on instrumentation and technology. Stay current on crucial developments in hybrid imaging (PET/CT and SPECT/CT), and small animal imaging, and benefit from the new section on tracer kinetic modeling in neuroreceptor imaging. What's more, you can reinforce your understanding with graphical animations online at www.expertconsult.com, along with the fully searchable text and calculation tools. Master the physics of nuclear medicine with thorough explanations of analytic equations and illustrative graphs to make them accessible. Discover the technologies used in state-of-the-art nuclear medicine imaging systems Fully grasp the process of emission computed tomography with advanced mathematical concepts presented in the appendices. Utilize the extensive data in the day-to-day practice of nuclear medicine practice and research. Tap into the expertise of Dr. Simon Cherry, who contributes his cutting-edge knowledge in nuclear medicine instrumentation. Stay current on the latest developments in nuclear medicine technology and methods New sections to learn about hybrid imaging (PET/CT and SPECT/CT) and small animal imaging. View graphical animations online at www.expertconsult.com, where you can also access the fully searchable text and calculation tools. Get a better view of images and line art and find information more easily thanks to a brand-new, full-color layout. The perfect reference or textbook to comprehensively review physics principles in nuclear medicine.

Environmental Life Cycle Assessment (Open Access) - Olivier Jolliet 2015-11-18

Environmental Life Cycle Assessment is a pivotal guide to identifying environmental problems and reducing related impacts for companies and organizations in need of life cycle assessment (LCA). LCA, a unique sustainability tool, provides a framework that addresses a growing demand for practical technological solutions. Detailing each phase of the LCA methodology, this textbook covers the historical development of

LCA, presents the general principles and characteristics of LCA, and outlines the corresponding standards for good practice determined by the International Organization for Standardization. It also explains how to identify the critical aspects of an LCA, provides detailed examples of LCA analysis and applications, and includes illustrated problems and solutions with concrete examples from water management, electronics, packaging, automotive, and other industries. In addition, readers will learn how to: Use consistent criteria to realize and evaluate an LCA independently of individual interests Understand the LCA methodology and become familiar with existing databases and methods based on the latest results of international research Analyze and critique a completed LCA Apply LCA methodology to simple case studies Geared toward graduate and undergraduate students studying environmental science and industrial ecology, as well as practicing environmental engineers, and sustainability professionals who want to teach themselves LCA good practices, *Environmental Life Cycle Assessment* demonstrates how to conduct environmental assessments for products throughout their life cycles. It presents existing methods and recent developments in the growing field of LCA and systematically covers goal and system definition, life cycle inventory, life cycle impact assessment, and interpretation.

Chemistry 2e - Paul Flowers 2019-02-14

SAP Backup using Tivoli Storage Manager - Budi Darmawan 2013-04-26

In this IBM® Redbooks® publication, we give an overview of different data management topics related to a typical SAP® data center. The intrinsic functionality of SAP is not designed to completely handle all the tasks of a data center by itself, but the SAP system offers several interface possibilities to attach external tools to it to accomplish this task We explain SAP basic concepts and the issues with SAP data management. We introduce Tivoli® Storage Manager and all of its products that are related to SAP data management. We provide some comparison between database backup and recovery tools. Finally, we discuss data archiving using IBM DB2® CommonStore for SAP, and discuss high availability requirements and disaster recovery considerations. The second part of this book discusses a practical implementation of SAP backup and recovery with Tivoli Storage Manager. We implement this setup on two separate SAP systems: one running DB2 and the other running Oracle® database. We also implement LAN-free backup and FlashCopy® scenarios. In the sample implementation section, we show many different tasks, such as backup and restore, database recovery, backup monitoring, and tuning. We also cover some advanced backup/availability considerations, such as split mirror backup and standby databases. This book helps individuals that operate an SAP environment to devise a strategy for a sound and comprehensive data backup solution using the IBM Tivoli Storage Management product family.

Hazardous Chemicals Handbook - P A CARSON 2002-03-12

The authors' aim with this handbook, is to provide a rapid ready-reference to help in the often complex task of handling, using and disposing of chemicals safely and with minimum risk to people's health or damage to facilities or to the environment. The book provides look-up data, and concise, clear explanations of general chemical principles, physiochemical and reactive properties, toxicities and exposure limits, flammability characteristics, monitoring techniques, personal protection and other parameters and requirements relating to compliance with designated safe practice, control of risks to people's health and limitation of environmental impact. Over 600 pages of valuable reference material Includes information on physiochemical and reactive properties, toxicities and exposure limits, flammability characteristics, monitoring techniques, personal protection and other parameters and requirements relating to compliance Summarizes core information for quick reference

in the workplace or in transit

Teaching About Evolution and the Nature of Science - National Academy of Sciences 1998-05-06

Today many school students are shielded from one of the most important concepts in modern science: evolution. In engaging and conversational style, *Teaching About Evolution and the Nature of Science* provides a well-structured framework for understanding and teaching evolution. Written for teachers, parents, and community officials as well as scientists and educators, this book describes how evolution reveals both the great diversity and similarity among the Earth's organisms; it explores how scientists approach the question of evolution; and it illustrates the nature of science as a way of knowing about the natural world. In addition, the book provides answers to frequently asked questions to help readers understand many of the issues and misconceptions about evolution. The book includes sample activities for teaching about evolution and the nature of science. For example, the book includes activities that investigate fossil footprints and population growth that teachers of science can use to introduce principles of evolution. Background information, materials, and step-by-step presentations are provided for each activity. In addition, this volume: Presents the evidence for evolution, including how evolution can be observed today. Explains the nature of science through a variety of examples. Describes how science differs from other human endeavors and why evolution is one of the best avenues for helping students understand this distinction. Answers frequently asked questions about evolution. *Teaching About Evolution and the Nature of Science* builds on the 1996 National Science Education Standards released by the National Research Council and offers detailed guidance on how to evaluate and choose instructional materials that support the standards. Comprehensive and practical, this book brings one of today's educational challenges into focus in a balanced and reasoned discussion. It will be of special interest to teachers of science, school administrators, and interested members of the community.

The Transuranium Elements - Glenn Theodore Seaborg 1946

Nuclear Medicine Physics - International Atomic Energy Agency 2015-03-10

This publication provides the basis for the education of medical physicists initiating their university studies in the field of nuclear medicine. The handbook includes 20 chapters and covers topics relevant to nuclear medicine physics, including basic physics for nuclear medicine, radionuclide production, imaging and non-imaging detectors, quantitative nuclear medicine, internal dosimetry in clinical practice and radionuclide therapy. It provides, in the form of a syllabus, a comprehensive overview of the basic medical physics knowledge required for the practice of medical physics in modern nuclear medicine.

Voluntary National Content Standards in Economics - National Council on Economic Education 1997

This essential guide for curriculum developers, administrators, teachers, and education and economics professors, the standards were developed to provide a framework and benchmarks for the teaching of economics to our nation's children.

Science Spectrum - Holt Rinehart & Winston 2004

Living by Chemistry Assessment Resources - Angelica M. Stacy 2009

Patterns: Integrating WebSphere ILOG JRules with IBM Software - Chris Rayns 2011-02-24

This IBM® Redbooks® publication describes how the IBM WebSphere® ILOG JRules product can be used in association with other IBM middleware products to deliver better solutions. This book can help architects position a business rule management system (BRMS) in their existing infrastructures to deliver the value propositions that the business needs. This book can also help developers design and integrate JRules with those middleware products (focussing on WebSphere Process Server, WebSphere Message Broker and IBM CICS®) and help to illustrate common integration patterns and practices for these products.

Problems and Solutions on Atomic, Nuclear and Particle Physics - Yung-Kuo Lim 2000-03-04

This book, part of the seven-volume series *Major American Universities PhD Qualifying Questions and Solutions* contains detailed solutions to 483 questions/problems on atomic, molecular, nuclear and particle physics, as well as experimental methodology. The problems are of a standard appropriate to advanced undergraduate and graduate syllabi, and blend together two objectives — understanding of physical principles

and practical application. The volume is an invaluable supplement to textbooks.

Atoms to Electricity - 1984

The Image of the City - Kevin Lynch 1964-06-15

The classic work on the evaluation of city form. What does the city's form actually mean to the people who live there? What can the city planner do to make the city's image more vivid and memorable to the city dweller? To answer these questions, Mr. Lynch, supported by studies of Los Angeles, Boston, and Jersey City, formulates a new criterion—imageability—and shows its potential value as a guide for the building and rebuilding of cities. The wide scope of this study leads to an original and vital method for the evaluation of city form. The architect, the planner, and certainly the city dweller will all want to read this book.

The Writing Revolution - Judith C. Hochman 2017-08-07

Why you need a writing revolution in your classroom and how to lead it. *The Writing Revolution (TWR)* provides a clear method of instruction that you can use no matter what subject or grade level you teach. The model, also known as *The Hochman Method*, has demonstrated, over and over, that it can turn weak writers into strong communicators by focusing on specific techniques that match their needs and by providing them with targeted feedback. Insurmountable as the challenges faced by many students may seem, *The Writing Revolution* can make a dramatic difference. And the method does more than improve writing skills. It also helps: Boost reading comprehension Improve organizational and study skills Enhance speaking abilities Develop analytical capabilities *The Writing Revolution* is as much a method of teaching content as it is a method of teaching writing. There's no separate writing block and no separate writing curriculum. Instead, teachers of all subjects adapt the TWR strategies and activities to their current curriculum and weave them into their content instruction. But perhaps what's most revolutionary about the TWR method is that it takes the mystery out of learning to write well. It breaks the writing process down into manageable chunks and then has students practice the chunks they need, repeatedly, while also learning content.

A New System of Chemical Philosophy ... - John Dalton 1808

Nature's Building Blocks - John Emsley 2003

Presents chemical, physical, nuclear, electron, crystal, biological, and geological data on all the chemical elements.

Water Quality Assessments - Deborah V Chapman 1996-08-22

This guidebook, now thoroughly updated and revised in its second edition, gives comprehensive advice on the designing and setting up of monitoring programmes for the purpose of providing valid data for water quality assessments in all types of freshwater bodies. It is clearly and concisely written in order to provide the essential information for all agencies and individuals responsible for the water quality.

Performance Assessment in the Science Classroom - Glencoe/McGraw-Hill 2004

Guidelines for Perinatal Care - American Academy of Pediatrics 1997

This guide has been developed jointly by the American Academy of Pediatrics and the American College of Obstetricians and Gynecologists, and is designed for use by all personnel involved in the care of pregnant women, their fetuses, and their neonates.

Environmental Consequences of the Chernobyl Accident and Their Remediation - International Atomic Energy Agency 2006

The explosion on 26 April 1986 at the Chernobyl nuclear power plant and the consequent reactor fire resulted in an unprecedented release of radioactive material from a nuclear reactor and adverse consequences for the public and the environment. Although the accident occurred nearly two decades ago, controversy still surrounds the real impact of the disaster. Therefore the IAEA, in cooperation with other UN bodies, the World Bank, as well as the competent authorities of Belarus, the Russian Federation and Ukraine, established the Chernobyl Forum in 2003. The mission of the Forum was to generate 'authoritative consensual statements' on the environmental consequences and health effects attributable to radiation exposure arising from the accident as well as to provide advice on environmental remediation and special health care programmes, and to suggest areas in which further research is required. This report presents the findings and recommendations of the Chernobyl Forum concerning the environmental effects of the Chernobyl accident.

Foreign Humanitarian Assistance - Department of Defense 2019-07-19

Foreign Humanitarian Assistance, Joint Publication 3-29, 14 May 2019
This publication provides fundamental principles and guidance to plan, execute, and assess foreign humanitarian assistance operations. This publication has been prepared under the direction of the Chairman of the Joint Chiefs of Staff (CJCS). It sets forth joint doctrine to govern the activities and performance of the Armed Forces of the United States in joint operations, and it provides considerations for military interaction with governmental and nongovernmental agencies, multinational forces, and other interorganizational partners. Why buy a book you can download for free? We print the paperback book so you don't have to. First you gotta find a good clean (legible) copy and make sure it's the latest version (not always easy). Some documents found on the web are missing some pages or the image quality is so poor, they are difficult to read. If you find a good copy, you could print it using a network printer you share with 100 other people (typically its either out of paper or toner). If it's just a 10-page document, no problem, but if it's 250-pages, you will need to punch 3 holes in all those pages and put it in a 3-ring binder. Takes at least an hour. It's much more cost-effective to just order the bound paperback from Amazon.com This book includes original commentary which is copyright material. Note that government documents are in the public domain. We print these paperbacks as a service so you don't have to. The books are compact, tightly-bound paperback, full-size (8 1/2 by 11 inches), with large text and glossy covers. 4th Watch Publishing Co. is a HUBZONE SDVOSB. <https://usgovpub.com>

Standard Methods for the Examination of Water and Wastewater - 1913

The Mysterious Moonstone - Eric Luper 2016-04-26

Getting lost in a good book has never been this dangerous! Cleo and Evan have a secret. A collection of books so dangerous they are locked up tight. A friend has vanished inside the pages of one of them. It's up to them to find the key that will set her free. A PRICELESS DIAMOND...STOLEN!When Cleo and Evan go undercover to help a rookie detective interview a mansion full of suspects, nothing is as it seems. They must catch the crook -- and find the right key -- or they could be trapped inside this mystery forever...

Globalization of Management Education - AACSB International 2011-02-09

In this comprehensive report, the AACSB Task Force explores broad globalization trends in management education that command the attention of any individual or institution striving to navigate in today's environment.

Electrons - Mary Wissinger 2021-09-07

In the final part of a three-book series, Ellie the Electron adventures into the subatomic world. Simple rhyming sentences and vibrant science pictures make it easy for even a toddler to begin to understand the basics of chemistry. Learn about some of the most fundamental concepts in science BEFORE the social pressure and intimidation of formal schooling sets in. Spark scientific curiosity in kids of all ages!

General Chemistry - Ralph H. Petrucci 2011-08

IBM Software for SAP Solutions - Yaro Dunchych 2015-09-29

SAP is a market leader in enterprise business application software. SAP solutions provide a rich set of composable application modules, and configurable functional capabilities that are expected from a comprehensive enterprise business application software suite. In most cases, companies that adopt SAP software remain heterogeneous enterprises running both SAP and non-SAP systems to support their business processes. Regardless of the specific scenario, in heterogeneous enterprises most SAP implementations must be integrated with a variety of non-SAP enterprise systems: Portals Messaging infrastructure Business process management (BPM) tools Enterprise Content Management (ECM) methods and tools Business analytics (BA) and business intelligence (BI) technologies Security Systems of record Systems of engagement The tooling included with SAP software addresses many needs for creating SAP-centric environments. However, the classic approach to implementing SAP functionality generally leaves the business with a rigid solution that is difficult and expensive to change and enhance. When SAP software is used in a large, heterogeneous enterprise environment, SAP clients face the dilemma of selecting the correct set of tools and platforms to implement SAP functionality, and to integrate the SAP solutions with non-SAP systems. This IBM® Redbooks® publication explains the value of integrating IBM software with SAP solutions. It describes how to enhance and extend pre-built capabilities in SAP software with best-in-class IBM enterprise software,

enabling clients to maximize return on investment (ROI) in their SAP investment and achieve a balanced enterprise architecture approach. This book describes IBM Reference Architecture for SAP, a prescriptive blueprint for using IBM software in SAP solutions. The reference architecture is focused on defining the use of IBM software with SAP, and is not intended to address the internal aspects of SAP components. The chapters of this book provide a specific reference architecture for many of the architectural domains that are each important for a large enterprise to establish common strategy, efficiency, and balance. The majority of the most important architectural domain topics, such as integration, process optimization, master data management, mobile access, Enterprise Content Management, business intelligence, DevOps, security, systems monitoring, and so on, are covered in the book. However, there are several other architectural domains which are not included in the book. This is not to imply that these other architectural domains are not important or are less important, or that IBM does not offer a solution to address them. It is only reflective of time constraints, available resources, and the complexity of assembling a book on an extremely broad topic. Although more content could have been added, the authors feel confident that the scope of architectural material that has been included should provide organizations with a fantastic head start in defining their own enterprise reference architecture for many of the important architectural domains, and it is hoped that this book provides great value to those reading it. This IBM Redbooks publication is targeted to the following audiences: Client decision makers and solution architects leading enterprise transformation projects and wanting to gain further insight so that they can benefit from the integration of IBM software in large-scale SAP projects. IT architects and consultants integrating IBM technology with SAP solutions.

Beyond Transparency - Brett Goldstein 2013-09-30

The rise of open data in the public sector has sparked innovation, driven efficiency, and fueled economic development. While still emerging, we are seeing evidence of the transformative potential of open data in shaping the future of our civic life, and the opportunity to use open data to reimagine the relationship between residents and government, especially at the local level. As we look ahead, what have we learned so far from open data in practice and how we can apply those lessons to realize a more promising future for America's cities and communities? Edited by Brett Goldstein, former Chief Data Officer for the City of Chicago, with Code for America, this book features essays from over twenty of the world's leading experts in a first-of-its-kind instructive anthology about how open data is changing the face of our public institutions. Contributors include: Michael Flowers, Chief Analytics Officer, New York City Beth Blauer, former director of Maryland StateStat Jonathan Feldman, CIO, City of Asheville Tim O'Reilly, founder & CEO, O'Reilly Media Eric Gordon, Director of Engagement Game Lab, Emerson College Beth Niblock, CIO, Louisville Metro Government Ryan & Mike Alfred, Co-Founders, Brightscope Emer Coleman, former director of the London Datastore Mark Headd, Chief Data Officer, City of Philadelphia "As an essential volume for anyone interested in the future of governance, urban policy, design, data-driven policymaking, journalism, or civic engagement, "Beyond Transparency" combines the inspirational glow and political grit of Profiles in Courage with the clarity of an engineer's calm explanation of how something technical actually works. Here are the detailed how-to stories of many members of the first generation of open government pioneers, written in a generous, accessible style; this compilation presents us with a great deal to admire, ample provocation, and wise guidance from a group of remarkable individuals." -Susan Crawford, author of Captive Audience "Just as he did during his time in my administration, Goldstein has brought together industry leaders to discuss issues of relevance in the open data movement and the practical implications of implementing these policies... This book will help continue the work to make open government a reality across the country." - Mayor Rahm Emanuel, City of Chicago "A must-read for anyone who is passionate about what open data can do to transform city living." - Boris Johnson, Mayor of London **Vocabulary Instruction, Second Edition** - Edward J. Kame'enui 2012-05-10

This highly regarded work brings together prominent authorities on vocabulary teaching and learning to provide a comprehensive yet concise guide to effective instruction. The book showcases practical ways to teach specific vocabulary words and word-learning strategies and create engaging, word-rich classrooms. Instructional activities and games for diverse learners are brought to life with detailed examples. Drawing on the most rigorous research available, the editors and contributors distill

what PreK-8 teachers need to know and do to support all students' ongoing vocabulary growth and enjoyment of reading. New to This Edition*Reflects the latest research and instructional practices.*New section (five chapters) on pressing current issues in the field: assessment, authentic reading experiences, English language learners, uses of multimedia tools, and the vocabularies of narrative and informational texts.*Contributor panel expanded with additional leading researchers.

Solving Problems - McGraw-Hill/Glencoe 2001-08

Safe Management of Wastes from Health-care Activities - A. Prüss 1999

Assessing Recent Soil Erosion Rates Through the Use of Beryllium-7 (Be-7) - Lionel Mabit 2019-01-01

This open access book is the first comprehensive guideline for the beryllium-7 (Be-7) technique that can be applied to evaluate short-term patterns and budgets of soil redistribution in agricultural landscapes. While covering the fundamental and basic concepts of the approach, this book distinguishes itself from other publications by offering step-by-step instructions on how to use this isotopic technique effectively. It covers experimental design considerations and clear instruction is given on data processing. As accurate laboratory measurement is crucial to ensure successful use of Be-7 to investigate soil erosion, a full chapter is devoted to its specific determination by gamma spectrometry. This open access contribution further describes new developments in the Be-7 technique and includes a concluding chapter highlighting its potential benefits to support the implementation of area-wide soil conservation policy.

Physics: a First Course - Tom Hsu, Ph.d. 2004-06-30

The Sourcebook for Teaching Science, Grades 6-12 - Norman Herr 2008-08-11

The Sourcebook for Teaching Science is a unique, comprehensive resource designed to give middle and high school science teachers a wealth of information that will enhance any science curriculum. Filled with innovative tools, dynamic activities, and practical lesson plans that are grounded in theory, research, and national standards, the book offers both new and experienced science teachers powerful strategies and original ideas that will enhance the teaching of physics, chemistry, biology, and the earth and space sciences.

Toxicological Profile for Cesium - 2004

Bringing Words to Life - Isabel L. Beck 2013-03-14

"Exciting and engaging vocabulary instruction can set students on the path to a lifelong fascination with words. This book provides a research-based framework and practical strategies for vocabulary development with children from the earliest grades through high school. The authors emphasize instruction that offers rich information about words and their uses and enhances students' language comprehension and production. Teachers are guided in selecting words for instruction; developing student-friendly explanations of new words; creating meaningful learning activities; and getting students involved in thinking about, using, and noticing new words both within and outside the classroom. Many concrete examples, sample classroom dialogues, and exercises for teachers bring the material to life. Helpful appendices include suggestions for trade books that help children enlarge their vocabulary and/or have fun with different aspects of words"--