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Embedded Android - Karim Yaghmour 2013-03-15
Embedded Android is for Developers wanting to create embedded systems based on Android and for those wanting to port Android to new hardware, or creating a custom development environment. Hackers and moders will also find this an indispensible guide to how Android works.
Innovation and Interdisciplinary Solutions for Underserved Areas - Cheikh M. F. Kebe 2018-01-24
This book constitutes the refereed post-conference proceedings of the First International Conference on Innovation and Interdisciplinary Solutions for Underserved Areas, InterSol 2017, and the 6th Collogue National sur la Recherche en Informatique et ses Applications (CNRIA), held in Dakar, Senegal, in April 2017. The 15 papers presented at InterSol were selected from 76 submissions and are grouped thematically in science, energy and environment, education, innovation, and healthcare. The proceedings also contain 13 papers from the co-located 6th CNRIA (Collogue National sur la Recherche en Informatique et ses Applications) focusing on network architecture and security, software engineering, data management, and signal processing.
Rational Application Developer V7 Programming Guide - Ueli Wahli 2008-03-27
IBM® Rational® Application Developer for WebSphere® Software V7.0 (for short, Rational Application Developer) is the full function Eclipse 3.2 based development platform for developing JavaTM 2 Platform Standard Edition (J2SETM) and Java 2 Platform Enterprise Edition (J2EETM) applications with a focus on applications to be deployed to IBM WebSphere Application Server and IBM WebSphere Portal. Rational Application Developer provides integrated development tools for all development roles, including Web developers, Java developers, business analysts, architects, and enterprise programmers. Rational Application Developer is part of the IBM Rational Software Delivery Platform (SDP), which contains products in four life cycle categories: - Architecture management, which includes integrated development environments (Application Developer is here) - Change and release management - Process and portfolio management - Quality management This IBM Redbooks® publication is a programming guide that highlights the features and tooling included with Rational Application Developer V7.0. Many of the chapters provide working examples that demonstrate how to use the tooling to develop applications, as well as achieve the benefits of visual and rapid application development. This publication is an update of Rational Application Developer V6 Programming Guide, SG24-6449. This book consists of six parts: - Introduction to Rational Application Developer - Develop applications - Test and debug applications - Deploy and profile applications - Team development - Appendixes
Building SOA Solutions Using the Rational SDP - Ueli Wahli 2007-01-01

Long Noncoding RNAs in Plants - Santosh Kumar Upadhyay 2020-11-13
The growth of human population has increased the demand for improved yield and quality of crops and horticultural plants. However, plant productivity continues to be threatened by stresses such as heat, cold, drought, heavy metals, UV radiations, bacterial and fungal pathogens, and insect pests. Long noncoding RNAs are associated with various developmental pathways, regulatory systems, abiotic and biotic stress responses and signaling, and can provide an alternative strategy for stress management in plants. Long Noncoding RNAs in Plants: Roles in development and stress provides the most recent advances in LncRNAs, including identification, characterization, and their potential applications and uses. Introductory chapters include the basic features and brief history of development of lncRNAs studies in plants. The book then provides the knowledge about the lncRNAs in various important agricultural and horticultural crops such as cereals, legumes, fruits, vegetables, and fiber crop cotton, and their roles and applications in abiotic and biotic stress management. Includes the latest advances and research in long noncoding RNAs in plants Provides alternative strategies for abiotic and biotic stress management in horticultural plants and agricultural crops Focuses on the application and uses of long noncoding RNAs
Ecological Studies of the Bonaparte Archipelago and Browse Basin - John Comrie-Greig 2014

Handbook of Monochromatic XPS Spectra - B. Vincent Crist 2000-10-19
These three volumes provide comprehensive information about the instrument, the samples, and the methods used to collect the spectra. The spectra are presented on a landscape format and cover a wide variety of elements,polymers, semiconductors, and other materials. Offers a clear presentation of spectra with the rightamount of experimental detail. All of the experiments have been conducted under controlled conditions on the same instrument by aworld-renowned expert.
Desiring God - John Piper 1996
Insightful and heart-warming, this classic book is written for those who seek to know God better. It unfolds life-impacting, biblical truths and has been called a "soul-stirring celebration of the pleasures of knowing God."
Genetic Programming - Conor Ryan 2003-04-07
This book constitutes the refereed proceedings of the 6th European Conference on Genetic Programming, EuroGP 2003, held in Essex, UK in April 2003. The 45 revised papers presented were carefully reviewed and selected from 61 submissions. All current aspects of genetic programming and genetic algorithms are addressed, ranging from foundational, theoretical, and methodological issues to advanced applications in various fields.
IT Service Management Best Practices Using IBM SmartCloud Control Desk - Axel Buecker 2013-12-12
SmartCloud Control Desk is a comprehensive IT Asset and Service Management solution that helps reduce cost and minimize service disruptions. It does so through automated service request handling, efficient change management, and optimized asset lifecycle management across IT and enterprise domains. SmartCloud Control Desk helps to reduce total cost of ownership by using one unified solution to license, install, and manage multiple ITIL processes under one price point. It can also help reduce business risk by using advanced impact analysis and defining automated change procedures that ensure integrity of existing infrastructure while supporting business agility. SmartCloud Control Desk improves efficiency and quality of service by unifying asset, change, and problem management. It lowers cost and mitigates license compliance risk by performing end to end software asset management. It also delivers an adaptive, role-based simplified UI that can be more intuitive for novice users, which reduces training costs, while allowing access from anywhere at anytime through mobile device support that includes BlackBerry, iOS, and Android. In addition, SmartCloud Control Desk supports both a profit center business model for internal IT organizations, and an external Service Provider model. It allows organizations to manage customers and customer agreements and bills for managed assets, usage, and work activities while improving utilization rates and reducing unnecessary purchases by managing the IT asset lifecycle. You can deploy SmartCloud Control Desk in a variety of ways; traditional on-premise, SaaS, VM image. This approach can make it more affordable to meet your current business needs, and seamlessly move between delivery models while keeping the same functionality. This IBM® Redbooks® publication covers IBM SmartCloud® Control Desk product configuration, customization, and implementation best practices.
Government Reports Announcements - 1972-04

Applied Strength of Materials for Engineering Technology - Barry Dupen 2018
This algebra-based text is designed specifically for Engineering

Technology students, using both SI and US Customary units. All example problems are fully worked out with unit conversions. Unlike most textbooks, this one is updated each semester using student comments, with an average of 80 changes per edition.

WebSphere Application Server V7 Administration and Configuration Guide - Carla Sadtler 2013-06-12
This IBM® Redbooks® publication provides system administrators and developers with the knowledge to configure a WebSphere® Application Server V7 runtime environment, to package and deploy applications, and to perform ongoing management of the WebSphere environment. As one in a series of IBM Redbooks publications and RedpapersTM publications for V7, the entire series is designed to give you in-depth information about key WebSphere Application Server features. In this book, we provide a detailed exploration of the WebSphere Application Server V7 runtime administration process. The book includes configuration and administration information for WebSphere Application Server V7 and WebSphere Application Server Network Deployment V7 on distributed platforms and WebSphere Application Server for z/OS® V7. The following publications are considered prerequisites to this book: - WebSphere Application Server V7.0: Technical Overview, REDP-4482 - WebSphere Application Server V7: Concepts, Planning and Design, SG24-7708

The Art and Science of Analog Circuit Design - Jim Williams 1998-08-24
In this companion text to Analog Circuit Design: Art, Science, and Personalities, seventeen contributors present more tutorial, historical, and editorial viewpoints on subjects related to analog circuit design. By presenting divergent methods and views of people who have achieved some measure of success in their field, the book encourages readers to develop their own approach to design. In addition, the essays and anecdotes give some constructive guidance in areas not usually covered in engineering courses, such as marketing and career development. *Includes visualizing operation of analog circuits *Describes troubleshooting for optimum circuit performance *Demonstrates how to produce a saleable product

Calf and Heifer Feeding and management - Zhijun Cao 2020-12-11
From birth to first calving, the replacement heifer undergoes tremendous changes anatomically as well as in feeding and management practices. The calf changes from being a pseudo-monogastric to a full ruminant within a period of two months. During the same period, the calf is fed colostrum, milk, or milk replacer, and starter with or without hay. Notably, the lifetime milk production and health of a dairy cow is highly dependent on early life nutrition and management of the calf and, subsequently, the heifer. Hence, animal scientists continue to investigate critical areas such as colostrum feeding, the level of liquid feeding, gut microbial succession, energy and protein levels, housing, health management, and their interactions with the animal in an effort to help dairy producers raise successful and sustainable dairy enterprises.

Equine Viruses - Romain Paillot 2020-04-30
The Food and Agriculture Organization of the United Nations has recently estimated that the world equid population exceeds 110 million. Working equids (horses, ponies, donkeys, and mules) remain essential to ensure the livelihood of poor communities around the world. In many developed countries, the equine industry has significant economical weight, with around 7 million horses in Europe alone. The close relationship between humans and equids and the fact that the athlete horse is the terrestrial mammal that travels the most worldwide after humans are important elements to consider in the transmission of pathogens and diseases, amongst equids and to other species. The potential effect of climate change on vector ecology and vector-borne diseases is also of concern for both human and animal health. In this Special Issue, we intend to explore our understanding of a panel of equine viruses, looking at their pathogenicity, their importance in terms of welfare and potential association with diseases, their economic importance and impact on performance, and how their identification can be helped by new technologies and methods.

Co-locating Transactional and Data Warehouse Workloads on System z - Mike Ebbers 2010-12-03
As business cycles speed up, many customers gain significant competitive advantage from quicker and more accurate business decision-making by using real data. For many customers, choosing the path to co-locate their transactional and analytical workloads on System z® better leverages their existing investment in hardware, software, and skills. We created a project to address a number of best practice questions on how to manage these newer, analytical type workloads,

especially when co-located with traditional transactional workloads. The goal of this IBM® Redbooks® publication is to provide technical guidance and performance trade-offs associated with resource management and potentially DB2® data-sharing in a variety of mixed transactional / data warehouse System z topologies. The term co-location used here and in the rest of the book is specifically defined as the practice of housing both transactional (OLTP) and data warehouse (analytical) workloads within the same System z configuration. We also assumed that key portions of the transactional and data warehouse databases would reside on DB2 for z/OS®. The databases may or may not reside in a DB2 data-sharing environment; we discuss those pros and cons in this book. The intended audience includes DB2 data warehouse architects and practitioners who are facing choices in resource management and system topologies in the data warehouse arena. This specifically includes Business Intelligence (BI) administrators, DB2 database administrators (DBAs) and z/OS performance administrators / systems programmers. In addition, decision makers and architects can utilize this book to assist in making platform and database topology decisions. The book is divided into four parts. Part I, "Introducing the co-location project" covers the System z value proposition and why one should consider System z as the central platform for their data warehousing / business analytics needs. Some topics are risk avoidance via data consolidation, continuous availability, simplified disaster recovery, IBM Smart Analytics Optimizer, reduced network bandwidth requirements, and the unique virtualization and resource management capabilities of System z LPAR, z/VM® and WLM. Part I also provides some of the common System z co-location topologies along with an explanation of the general pros and cons of each. This would be useful input for an architect to understand where a customer is today and where they might consider moving to. Part II, "Project environment" covers the environment, products, workloads, workload drivers, and data models implemented for this study. The environment consisted of a logically partitioned z10TM 32way, running z/VM, Linux®, and z/OS operating system instances. On those instances we ran products such as z/OS DB2 V9, IBM Cognos® Business Intelligence Version 8.4 for Linux on System z, InfoSphereTM Warehouse for System z, InfoSphere Change Data Capture, z/OS WebSphere® V7, Tivoli® Omegamon for DB2 Performance expert. Utilizing these products we created transactional (OLTP), data warehouse query, and data warehouse refresh workloads. All the workloads were based on an existing web-based transactional Bookstore workload, that's currently utilized for internal testing within the System p® and z labs. While some IBM Cognos BI and ISWz product usage and experiences information is covered in this book, we do not go into the depth typically found in IBM Redbooks publications, since there's another book focused specifically on that

Union Agriculturist and Western Prairie Farmer - 1978-07

Computational Methods in Protein Evolution - Tobias Sikosek 2018-11-03
This volume presents a diverse collection of methodologies used to study various problems at the protein sequence and structure level. The chapters in this book look at issues ranging from broad concepts like protein space to specifics like antibody modeling. Topics include point mutations, gene duplication, de novo emergence of new genes, pairwise correlated mutations, ancestral protein reconstruction, homology modelling, protein stability and dynamics, and protein-protein interactions. The book also covers a wide range of computational approaches, including sequence and structure alignments, phylogenies, physics-based and mathematical approaches, machine learning, and more. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and prerequisites, step-by-step, readily reproducible computational protocols (using command line or graphical user interfaces, sometimes including computer code), and tips on troubleshooting and avoiding known pitfalls. Cutting-edge and authoritative, Computational Methods in Protein Evolution is a valuable resource that offers useful workflows and techniques that will help both novice and expert researchers working with proteins computationally.

IBM Business Process Manager Version 8.0 Production Topologies - Dawn Ahukanna 2013-07-22
This IBM® Redbooks® publication describes how to build production topologies for IBM Business Process Manager V8.0. This book is an update of the existing book IBM Business Process Manager V7.5 Production Topologies, SG24-7976. It is intended for IT Architects and IT Specialists who want to understand and implement these topologies. Use this book to select the appropriate production topologies for an

environment, then follow the step-by-step instructions to build those topologies. Part 1 introduces IBM Business Process Manager and provides an overview of basic topology components, and Process Server and Process Center. This part also provides an overview of the production topologies described in this book, including a selection criteria for when to select a topology. IBM Business Process Manager security and the presentation layer are also addressed in this part. Part 2 provides a series of step-by-step instructions for creating production topology environments by using deployment environment patterns. This process includes topologies that incorporate IBM Business Monitor. This part also describes advanced topology topics. Part 3 covers post installation instructions for implementing production topology environments such as configuring IBM Business Process Manager to use IBM HTTP Server and WebSphere® proxy server.

Building Real-time Mobile Solutions with MQTT and IBM MessageSight - Bryan Boyd 2014-12-05
MQTT is a messaging protocol designed for the Internet of Things (IoT). It is lightweight enough to be supported by the smallest devices, yet robust enough to ensure that important messages get to their destinations every time. With MQTT devices, such as energy meters, cars, trains, mobile phones and tablets, and personal health care devices, devices can communicate with each other and with other systems or applications. IBM® MessageSight is a messaging appliance designed to handle the scale and security of a robust IoT solution. MessageSight allows you to easily secure connections, configure policies for messaging, and scale to up to a million concurrently connected devices. This IBM Redbooks® publication introduces MQTT and MessageSight through a simple key fob remote MQTT application. It then dives into the architecture and development of a robust, cross-platform Ride Share and Taxi solution (PickMeUp) with real-time voice, GPS location sharing, and chat among a variety of mobile platforms. The publication also includes an addendum describing use cases in a variety of other domains, with sample messaging topology and suggestions for design.

Accelerating Decarbonization of the U.S. Energy System - National Academies of Sciences, Engineering, and Medicine 2021-12-02
The world is transforming its energy system from one dominated by fossil fuel combustion to one with net-zero emissions of carbon dioxide (CO_2), the primary anthropogenic greenhouse gas. This energy transition is critical to mitigating climate change, protecting human health, and revitalizing the U.S. economy. To help policymakers, businesses, communities, and the public better understand what a net-zero transition would mean for the United States, the National Academies of Sciences, Engineering and Medicine convened a committee of experts to investigate how the U.S. could best decarbonize its transportation, electricity, buildings, and industrial sectors. This report, Accelerating Decarbonization of the United States Energy System, identifies key technological and socio-economic goals that must be achieved to put the United States on the path to reach net-zero carbon emissions by 2050. The report presents a policy blueprint outlining critical near-term actions for the first decade (2021-2030) of this 30-year effort, including ways to support communities that will be most impacted by the transition.
WorldMinds - Donald G. Janelle 2004-03-31
WorldMinds provides broad exposure to a geography that is engaged with discovery, interpretation, and problem solving. Its 100 succinct chapters demonstrate the theories, methods, and data used by geographers, and address the challenges posed by issues such as globalization, regional and ethnic conflict, environmental hazards, terrorism, poverty, and sustainable development. Through its theoretical and practical applications, we are reminded that the study of Geography informs policy making.

WebSphere Application Server Administration Using Jython - Robert A. Gibson 2009-10-18
Save Time and Money: Streamline WebSphere Application Server Management with Jython Scripting! Utilizing Jython scripting, you can dramatically reduce the effort, resources, and expense associated with managing WebSphere Application Server. WebSphere Application Server Administration Using Jython will show you how. The first start-to-finish guide to Jython scripting for WebSphere administration, this book's practical techniques and downloadable scripts can help you improve efficiency, repeatability, and automation in any WebSphere environment. This book's expert authors begin with practical introductions to both WebSphere Application Server administration and Jython, today's powerful, Java implementation of Python. Next, they cover a broad spectrum of WebSphere management tasks and techniques, presenting real, easy-to-adapt solutions for everything from server configuration and

security to database management. These are powerful solutions you can begin using immediately–whether you're running WebSphere in production, development, or test environments. Coverage includes Mastering the Jython rules, characteristics, and properties that are most valuable in WebSphere scripting Viewing and manipulating WebSphere configuration and run-time details Making the most of the wsadmin scripting engine and objects–including rarely-used wsadmin parameters that can simplify administration Adjusting wsadmin properties to reflect your needs and environment Using the AdminApp scripting object to list, view, install, uninstall, and modify AppServer applications Using the AdminTask object to manipulate WebSphere Application Server at a high level Configuring the WebSphere Application Server with AdminConfig Manipulating active AppServer objects (MBeans) with AdminControl Controlling security, including aliases, roles, administrative and application security, and multiple security domains
Automotive News -

From Paper to Pixels - Hugh Sung 2013
"From Paper to Pixels" is a guide for musicians making the transition from paper sheet music to digital sheet music readers and apps. From selecting the perfect tablet or computer to finding the right apps and tools for reading and writing music, exploring online sheet music resources and – most importantly – how to get music into your tablet or computer of choice, this comprehensive guide is written in a fun, breezy style, designed to soothe the fears of even the most techno-phobic musician. "From Paper to Pixels" will show you: •10 Reasons Why Pixels Are Better Than Paper •The Four C's Of Putting Together The Perfect Digital Sheet Music Reader •How To Put Sheet Music Into Your Tablet Or Computer •Cool Things You Never Knew You Could Do With Digital Sheet Music And much, much more! "From Paper to Pixels" was written for every kind of musician reading all types of music, from traditional music notation to lyric sheets, chord charts, and tablature. No matter what style or musical background you come from, you'll find this book to be an invaluable resource. "From Paper to Pixels" was written by Hugh Sung, a professional classical "paperless pianist" who is a pioneer of digital sheet music and a teacher who loves to empower learners. After performing around the world, recording multiple albums, and serving on the faculty of the venerable Curtis Institute of Music in Philadelphia for 19 years, Hugh combined his passion for music and technology and co-founded AirTurn, a company that develops technologies for musicians (www.airturn.com). For additional materials and tutorials, visit the companion website to this book at www.frompapertopixels.com
Grand Celebration: 10th Anniversary of the Human Genome Project - Pabulo H. Rampelotto 2018-10-01
This book is a printed edition of the Special Issue 2Grand Celebration: 10th Anniversary of the Human Genome Project" that was published in Genes
Swift Programming - Matthew Mathias 2016-11-23
This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Through the authors' carefully constructed explanations and examples, you will develop an understanding of Swift grammar and the elements of effective Swift style. This book is written for Swift 3.0 and will also show you how to navigate Xcode 8 and get the most out of Apple's documentation. Throughout the book, the authors share their insights into Swift to ensure that you understand the hows and whys of Swift and can put that understanding to use in different contexts. After working through the book, you will have the knowledge and confidence to develop your own solutions to a wide range of programming challenges using Swift.
Android Hacker's Handbook - Joshua J. Drake 2014-03-26
The first comprehensive guide to discovering and preventingattacks on the Android OS As the Android operating system continues to increase its shareof the smartphone market, smartphone hacking remains a growingthreat. Written by experts who rank among the world's foremostAndroid security researchers, this book presents vulnerabilitydiscovery, analysis, and exploitation tools for the good guys.Following a detailed explanation of how the Android OS works andits overall security architecture, the authors examine howvulnerabilities can be discovered and exploits developed forvarious system components, preparing you to defend againstthem. If you are a mobile device administrator, security researcher,Android app developer, or consultant responsible for evaluatingAndroid security, you will find this guide is essential to yourtoolbox. A crack team of leading Android security researchers explainAndroid security risks, security design and

architecture, rooting,fuzz testing, and vulnerability analysis Covers Android application building blocks and security as wellas debugging and auditing Android apps Prepares mobile device administrators, security researchers,Android app developers, and security consultants to defend Androidsystems against attack Android Hacker's Handbook is the first comprehensiveresource for IT professionals charged with smartphonesecurity.

Advances in Microfluidics Technology for Diagnostics and Detection - David Kinahan 2021-09-06
Microfluidics and lab-on-a-chip have, in recent years, come to the forefront in diagnostics and detection. At point-of-care, in the emergency room, and at the hospital bed or GP clinic, lab-on-a-chip offers the potential to rapidly detect time-critical and life-threatening diseases such as sepsis and bacterial meningitis. Furthermore, portable and user-friendly diagnostic platforms can enable disease diagnostics and detection in resource-poor settings where centralised laboratory facilities may not be available. At point-of-use, microfluidics and lab-on-chip can be applied in the field to rapidly identify plant pathogens, thus reducing the need for damaging broad spectrum pesticides while also reducing food losses. Microfluidics can also be applied to the continuous monitoring of water quality and can support policy-makers and protection agencies in protecting the environment. Perhaps most excitingly, microfluidics also offers the potential to enable entirely new diagnostic tests that cannot be implemented using conventional laboratory tools. Examples of microfluidics at the frontier of new medical diagnostic tests include early detection of cancers through circulating tumour cells (CTCs) and highly sensitive genetic tests using droplet-based digital PCR. This Special Issue on "Advances in Microfluidics Technology for Diagnostics and Detection" aims to gather outstanding research and to carry out comprehensive coverage of all aspects related to microfluidics in diagnostics and detection.

Lean Accounting - Joe Stenzel 2008-05-13
Praise for Lean Accounting Best Practices for Sustainable Integration "Anyone involved in a lean transformation inevitably bumps up against the vagaries of the accounting systems that reward overproduction and waste and seem to punish true improvement. We wonder what would happen if the accountants actually came to the production floor and witnessed firsthand the havoc created by their systems. This volume gathers together some of the best thinkers to take a critical look at traditional cost accounting and defines a path forward to 'lean accounting.'" —Jeff Liker, Professor of Industrial and Operations Engineering, University of Michigan "Joe Stenzel has put together a timely compendium of writings from thought leaders in lean accounting. The viewpoints in this fine book are diverse and yet proclaim a consistent message: that conventional management accounting is broken--and here is how to fix it." —Richard J. Schonberger, President, Schonberger & Associates "If you are serious about understanding and implementing Lean Accounting in conjunction with your Lean Enterprise journey, this book will illuminate the specific techniques, but more importantly, will explain the cultural changes that are a prerequisite for success." —Jerry Solomon, Vice President of Operations, Hunt Valley, for MarquipWardUnited, a division of Barry-Wehmiller Companies, Inc. Insights and strategies from the most experienced lean accounting and performance measurement?practitioners in America Learn how to integrate the proven lean methodologies embedded in the Toyota Production System with Lean Accounting: Best Practices for Sustainable Integration. In this comprehensive guide, leading accounting and performance measurement practitioners analyze the current business climate and provide CFOs and accounting/finance personnel with step-by-step guidelines to seamlessly and successfully integrate sustainable, lean accounting principles within their enterprise. Be a lean success story with Lean Accounting.

Mass and Motion in General Relativity - Luc Blanchet 2011-01-19
From the infinitesimal scale of particle physics to the cosmic scale of the universe, research is concerned with the nature of mass. While there have been spectacular advances in physics during the past century, mass still remains a mysterious entity at the forefront of current research. Our current perspective on gravitation has arisen over millennia, through the contemplation of falling apples, lift thought experiments and notions of stars spiraling into black holes. In this volume, the world's leading scientists offer a multifaceted approach to mass by giving a concise and introductory presentation based on insights from their respective fields of research on gravity. The main theme is mass and its motion within general relativity and other theories of gravity, particularly for compact bodies. Within this framework, all articles are tied together coherently, covering post-Newtonian and related methods as well as the self-force approach to the analysis of motion in curved space-time, closing with an overview of the historical development and a snapshot on the actual state of the art. All contributions reflect the fundamental role of mass in physics, from issues related to Newton's laws, to the effect of self-force and radiation reaction within theories of gravitation, to the role of the Higgs boson in modern physics. High-precision measurements are described in detail, modified theories of gravity reproducing experimental data are investigated as alternatives to dark matter, and the fundamental problem of reconciling any theory of gravity with the physics of quantum fields is addressed. Auxiliary chapters set the framework for theoretical contributions within the broader context of experimental physics. The book is based upon the lectures of the CNRS School on Mass held in Orléans, France, in June 2008. All contributions have been anonymously refereed and, with the cooperation of the authors, revised by the editors to ensure overall consistency.

Jewels Of Stringology: Text Algorithms - Maxime Crochemore 2002-09-16
The term "stringology" is a popular nickname for text algorithms, or algorithms on strings. This book deals with the most basic algorithms in the area. Most of them can be viewed as "algorithmic jewels" and deserve reader-friendly presentation. One of the main aims of the book is to present several of the most celebrated algorithms in a simple way by omitting obscuring details and separating algorithmic structure from combinatorial theoretical background. The book reflects the relationships between applications of text-algorithmic techniques and the classification of algorithms according to the measures of complexity considered. The text can be viewed as a parade of algorithms in which the main purpose is to discuss the foundations of the algorithms and their interconnections. One can partition the algorithmic problems discussed into practical and theoretical problems. Certainly, string matching and data compression are in the former class, while most problems related to symmetries and repetitions in texts are in the latter. However, all the problems are interesting from an algorithmic point of view and enable the reader to appreciate the importance of combinatorics on words as a tool in the design of efficient text algorithms.In most textbooks on algorithms and data structures, the presentation of efficient algorithms on words is quite short as compared to issues in graph theory, sorting, searching, and some other areas. At the same time, there are many presentations of interesting algorithms on words accessible only in journals and in a form directed mainly at specialists. This book fills the gap in the book literature on algorithms on words, and brings together the many results presently dispersed in the masses of journal articles. The presentation is reader-friendly; many examples and about two hundred figures illustrate nicely the behaviour of otherwise very complex algorithms.

The Hacker's Dictionary - Eric S. Raymond 2017-06-19
This document is a collection of slang terms used by various subcultures of computer hackers. Though some technical material is included for background and flavor, it is not a technical dictionary; what we describe here is the language hackers use among themselves for fun, social communication, and technical debate.

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.

CICS and SOA: Architecture and Integration Choices - Chris Rayns 2012-03-26
The service-oriented architecture (SOA) style of integration involves breaking an application down into common, repeatable services that can be used by other applications (both internal and external) in an organization, independent of the computing platforms on which the business and its partners rely. In recent years CICS® has added a variety of support for SOA and now provides near seamless connectivity with other IT environments. This IBM® Redbooks® publication helps IT architects to select, plan, and design solutions that integrate CICS applications as service providers and requesters. First, we provide an introduction to CICS service enablement and introduce the architectural choices and technologies on which a CICS SOA solution can be based.

We continue with an in-depth analysis of how to meet functional and non-functional requirements in the areas of application interface, security, transactional scope, high availability, and scalability. Finally, we document three integration scenarios to illustrate how these technologies have been used by customers to build robust CICS integration solutions.

Dictionary of Microbiology and Molecular Biology - Paul Singleton 2006-10-16

A unique, encyclopaedic reference work covering the whole field of pure and applied microbiology and microbial molecular biology. This latest edition contains a vast amount of new and updated material - often to research level, and well beyond the coverage of current textbooks - making the dictionary even more valuable to lecturers, students, researchers and others in the biosciences and medicine. Updates and extends current textbooks 18 000 entries, from concise definitions to review-length articles Extensive cross-referencing between topics Thousands of references from mainstream journals and other specialist sources Over 5000 taxa: algae, archaeans, bacteria, fungi, protozoa and viruses; prions A 30-page Appendix of detailed metabolic pathways A classic book with a lifetime's use! Reviews of the Second Edition ' very informative and extensive valuable reference tool.' FEBS Letters 'The material is well cross-referenced ... Students should find it particularly useful.' Society for General Microbiology ' the uniqueness is in its concise and clear description of terms extremely comprehensive and easy to use.' ARBA

Rational Application Developer V7.5 Programming Guide - Ueli Wahli 2009-06-29

IBM® Rational® Application Developer for WebSphere® Software v7.5 (Application Developer, for short) is the full function Eclipse 3.4 based development platform for developing JavaTM Standard Edition Version 6 (Java SE 6) and Java Enterprise Edition Version 5 (Java EE 5) applications with a focus on applications to be deployed to IBM WebSphere Application Server and IBM WebSphere Portal. Rational Application Developer provides integrated development tools for all development roles, including Web developers, Java developers, business analysts, architects, and enterprise programmers. Rational Application Developer is part of the IBM Rational Software Delivery Platform (SDP), which contains products in four life cycle categories: - Architecture management, which includes integrated development environments - Change and release management - Process and portfolio management - Quality management This IBM RedbooksTM publication is a programming guide that highlights the features and tooling included with Rational Application Developer v7.5. Many of the chapters provide working examples that demonstrate how to use the tooling to develop applications, as well as achieve the benefits of visual and rapid application development. This publication is an update of Rational Application Developer V7 Programming Guide, SG24-7501.

Understanding Telephone Electronics - John L. Fike 1983

Integrative and Functional Medical Nutrition Therapy - Diana Noland 2020-03-27

This textbook is a practical guide to the application of the philosophy and principles of Integrative and Functional Medical Nutrition Therapy (IFMNT) in the practice of medicine, and the key role nutrition plays in restoring and maintaining wellness. The textbook provides an overview of recent reviews and studies of physiological and biochemical contributions to IFMNT and address nutritional influences in human heath overall, including poor nutrition, genomics, environmental toxicant exposures, fractured human interactions, limited physical movement, stress, sleep deprivation, and other lifestyle factors. Ultimately, this textbook serves to help practitioners, healthcare systems, and policy makers better understand this different and novel approach to complex chronic disorders. It provides the reader with real world examples of applications of the underlying principles and practices of integrative/functional nutrition therapies and presents the most up-to-date intervention strategies and clinical tools to help the reader keep abreast of developments in this emerging specialty field. Many chapters include comprehensive coverage of the topic and clinical applications with supplementary learning features such as case studies, take-home messages, patient and practitioner handouts, algorithms, and suggested readings. Integrative and Functional Medical Nutrition Therapy: Principles and Practices will serve as an invaluable guide for healthcare professionals in their clinical application of nutrition, lifestyle assessment, and intervention for each unique, individual patient.