Epic Applications User Guide

The computer code EPIC models fuel and coolant motion which results from internal fuel pin pressure (from fission gas or fuel vapor) and possibly from the generation of sodium vapor pressure in the coolant channel subsequent to pin failure in a liquid-metal fast breeder reactor. The EPIC model is restricted to conditions where fuel pin geometry is generally preserved and is not intended to treat the total disruption of the pin structure. The modeling includes the ejection of molten fuel from the pin into a coolant channel with any amount of voiding through a clad breach which may be of any length or which may extend with time. One-dimensional Eulerian hydrodynamics is used to treat the motion of fuel and fission gas inside a molten fuel cavity in the fuel pin as well as the mixture of two-phase sodium and fission gas in the coolant channel. Motion of fuel in the coolant channel is tracked with a type of particle-in-cell technique. EPIC is a Fortran-IV program requiring 400K bytes of storage on the IBM 370/195 computer. 21 refs., 2 figs. Starting with the fundamentals of the global energy industry, Handbook of Energy Politics goes on to cover the evolution of capital and financial markets in the energy industry, the effects of technology, environmental issues and global warming and geopolitics. The book concludes by considering the future, including the lessons learned from history, where we are most likely to be heading and what steps we can take to mitigate potential energy risks. This Handbook will be an invaluable resource for upper level graduates and postgraduate scholars.
Understanding 64-bit Processors and EPIC Principles
A FORTRAN 77 Program and User's Guide for the Generation of Latin Hypercube and Random Samples for Use with Computer Models
Fundamentals, Evolving Technologies and Emerging Applications, Second Edition
Vulnerability and Adaptation Assessments
Theory and Case Examples
Management
This second edition of The Human-Computer Interaction Handbook provides an updated, comprehensive

overview of the most important research in the field, including insights that are directly applicable throughout the process of developing effective interactive information technologies. It features cutting-edge advances to the scientific

Winner of a 2013 CHOICE Outstanding Academic Title Award The third edition of a groundbreaking reference, The Human-Computer Interaction Handbook: Fundamentals, Evolving Technologies, and Emerging Applications raises the bar for handbooks in this field. It is the largest, most complete compilation of HCI theories, principles, advances, case st

1972: July-December

The Definitive User's Guide and Databook

Handbook of Energy Politics

Research in Education

The Magazine of the National Bureau of Standards, U.S. Department of Commerce

Catalog of Copyright Entries

"Leonard's durable tome (seriously, the cover is rubber) is stuffed with so many tips about surviving in the wild, you'll be able to leave your smartphone behind." —Entertainment Weekly, Best New Books This easy introduction to outdoor life will ensure that even a novice won't get lost in the woods while finding an activity he loves to do in the great outdoors--whether it's hiking a 14er or camping on ice. With 400 strategies for engaging in the outdoors, and expert tips and tricks, The Great Outdoors: A User's Guide makes Mother Nature easier to understand than ever before. Brendan Leonard, writer, filmmaker, and outdoor adventurer, shows the reader how rewarding it can be to live life away from the computer and get outside. From mountain climbing, to skiing, sledding, and sailing, Leonard shows that you don't need to be a risk taker to enjoy the outdoors. And if the reader does find himself at the point of man vs. nature, Leonard shares survival skills from how to bandage a wound and read a topographical map, to how to drive on sand and remove a tick from your skin—all organized thematically and written in short takeaway entries with helpful line drawings. Bound in a uniquely rugged (and waterproof!) PVC cover material, The Great Outdoors: A User's Guide is a friendly way into the outdoor lifestyle, whether you're looking to dabble or go all in.

Conservation planning involves targeted management practices and land use decision-making

based on careful analysis of landscape limitations in order to protect soil and water resources. Developing solutions to conservation planning is of worldwide interest due to anticipated population growth, growing demand of feedstocks for biofuels, decreasing freshwater resources, and increasing land degradation in the developed world. Recent advances in geospatial technologies now provide land managers with tools and resources to conserve soil and water resources more efficiently than has ever been possible before. GIS Applications in Agriculture, Volume 4: Conservation Planning presents approaches developed by leading researchers working at the intersection of conservation and spatial technologies. Among others, the technologies include global positioning systems (GPS), geographic information systems (GIS), Internet mapping technologies, remote sensing, and various modeling applications. These advances allow improved prediction of soil erosion and environmental effects, better prioritization of land for conservation initiatives and funding, and enhanced prediction of the impact of management practices on natural resources. They also facilitate the development of conservation management plans and improve the accessibility of conservation knowledge and tools. The strategies presented are designed to provide the greatest benefit to preserving natural resources while reducing economic expenses. Each chapter includes a detailed background on the specific topic, with case studies describing the design and implementation of the solution. Readers are guided through step-by-step exercises to gain experience in executing the conservation practice. Substantial online data and modeling are available that can be immediately implemented or modified to suit users' needs. The exercises are accessible enough to be used in the classroom, yet detailed enough for self-instruction by highly motivated professionals active in developing conservation plans.
Monthly Catalog of United States Government Publications
Dimensions
Human Computer Interaction Handbook
Technical Abstract Bulletin
Scientific and Technical Aerospace Reports
Energy Research Abstracts

This book guides evaluators in planning a comprehensive, yet practical, program evaluation—from start to design—within any context, in an accessible manner.

This is a self-contained collection of data and information on applications of fluoropolymers components for corrosion control in chemical processing industries. Due to their superior properties, fluoropolymers have been rapidly replacing metal alloys for preserving the purity of processing streams in the chemical processing, plastics, food, pharmaceutical, semiconductor, and pulp and paper industries.

FEDLINK Technical Notes

Federal Information Sources and Systems

Management, a continuing bibliography with indexes

A Computer Program to Calculate the Motion of Fuel and Coolant Subsequent to Pin Failure in an LMFBR

An International Handbook

Federal Information Sources & Systems

This information is intended to facilitate the deployment of IBM© FlashSystem© for the Epic Corporation electronic health record (EHR) solution by describing the requirements and specifications for configuring IBM FlashSystem 9500 and its parameters. This document also describes the required steps to configure the server that hosts the EHR application. To complete these tasks, you must be knowledgeable of IBM FlashSystem 9500 and Epic applications. This Blueprint provides the following information: A solutions architecture and the related solution configuration information for the following essential components of software and hardware: Detailed technical configuration steps for configuring IBM FlashSystem 9500 Server configuration details for Caché database and Epic applications

Not only does almost everyone in the civilized world use a personal computer, smartphone, and/or tablet on a daily basis to communicate with others and access information, but virtually every other modern appliance, vehicle, or other device has one or more computers embedded inside it. One cannot purchase a current-model automobile, for example, without several computers on board to do everything from monitoring exhaust emissions, to operating the anti-lock brakes, to telling the transmission when to shift, and so on. Appliances such as clothes washers and dryers, microwave ovens, refrigerators, etc. are almost all digitally controlled. Gaming consoles like Xbox, PlayStation, and Wii are powerful computer systems with enhanced capabilities for user interaction. Computers are everywhere, even when we don't see them as

such, and it is more important than ever for students who will soon enter the workforce to understand how they work. This book is completely updated and revised for a one-semester upper level undergraduate course in Computer Architecture, and suitable for use in an undergraduate CS, EE, or CE curriculum at the junior or senior level. Students should have had a course(s) covering introductory topics in digital logic and computer organization. While this is not a text for a programming course, the reader should be familiar with computer programming concepts in at least one language such as C, C++, or Java. Previous courses in operating systems, assembly language, and/or systems programming would be helpful, but are not essential.

Handbook of Advanced Industrial and Hazardous Wastes Treatment

1975 University Center Conference Proceedings

Nuclear Science Abstracts

InfoWorld

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Conservation Planning

Agriculture is strongly affected by changes in soil hydrology as well as changes in land use and management practices and the complex interactions between them. This book aims to develop an understanding of these interactions on a watershed scale, using soil hydrology models and addresses the consequences of land use and management changes on agriculture from a research perspective. It includes case studies that illustrate the impact of land use and management on various soil hydrological parameters under different climates and ecosystems. It is suitable for researchers and students in soil sc

February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications; September issue includes List of depository libraries; June and December issues include semiannual index

A User's Guide to EPIC

ERDA Energy Research Abstracts

Everything You Need to Know Before Heading into the Wild (and How to Get Back in One Piece)

GIS Applications in Agriculture, Volume Four

Management, a Bibliography for NASA Managers

Fundamentals and Principles of Computer Design, Second Edition

Most industrial and hazardous waste management resources cover the major industries and provide conventional in-plant pollution control strategies. Until now however, no book or series of books has provided coverage that includes the latest developments in innovative and alternative environmental technology, design criteria, managerial decision met

InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic

Centers. InfoWorld also celebrates people, companies, and projects.
Itanium Architecture for Programmers
User's Guide to EPIC, a Computer Program to Calculate the Motion of Fuel and Coolant Subsequent
to Pin Failure in an LMFBR.
"university Assistance to Economic Development in a Recession".
The Human-Computer Interaction Handbook
The Great Outdoors: A User's Guide
A Practical Guide to Program Evaluation Planning

The possible impacts of global climate change on different countries has led to the development and ratification of the Framework Convention on Climate Change (FCCC) and has a strong bearing on the future sustainable development of developing countries and countries with economies in transition. The preparation of analytical methodologies and tools for carrying out assessments of vulnerability and adaptation to climate change is therefore of prime importance to these countries. Such assessments are needed to both fulfill the reporting requirements of the countries under the FCCC as well as to prepare their own climate change adaptation and mitigation plans. The vulnerability and adaptation assessment guidelines prepared by the U.S. Country Studies Program bring together all the latest knowledge and experience from around the world on both vulnerability analysis as well as adaptation methodologies. It is currently being applied successfully by scientists in over fifty countries from all the regions of the globe. This guidance is being published to share it with the wider scientific community interested in global climate change issues. This guidance document has two primary purposes: • To assist countries in making decisions about the scope and methods for their vulnerability and adaptation assessments, • To provide countries with guidance and step-by-step instructions on each of the basic elements of vulnerability and adaptation assessments.
Step-by-step guide to assembly language for the 64-bit Itanium processors, with extensive examples Details of Explicitly Parallel Instruction Computing (EPIC): Instruction set, addressing, register stack engine, predication, I/O, procedure calls, floating-point operations, and more Learn how to comprehend and optimize open source, Intel, and HP-UX compiler output Understand the full power of 64-bit Itanium EPIC processors Itanium(R) Architecture for Programmers is a comprehensive introduction to the breakthrough capabilities of the new 64-bit Itanium architecture. Using standard command-line tools and extensive examples, the authors illuminate the Itanium design within the broader context of contemporary computer architecture via a step-by-step investigation of Itanium assembly language. Coverage includes: The potential of Explicitly Parallel Instruction Computing (EPIC) Itanium instruction formats and addressing modes Innovations such as the register stack

engine (RSE) and extensive predication Procedure calls and procedure-calling mechanisms Floating-point operations I/O techniques, from simple debugging to the use of files Optimization of output from open source, Intel, and HP-UX compilers An essential resource for both computing professionals and students of architecture or assembly language, Itanium Architecture for Programmers includes extensive printed and Web-based references, plus many numeric, essay, and programming exercises for each chapter.

Fundamentals, Evolving Technologies, and Emerging Applications, Third Edition

Resources in Education

Monthly Catalogue, United States Public Documents

Measurement and Modelling

Computer Architecture

Soil Hydrology, Land Use and Agriculture

Includes subject, agency, and budget indexes.

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Electronic Health Records with Epic and IBM FlashSystem 9500 Blueprint Version 2 Release 4

Fluoropolymer Applications in the Chemical Processing Industries

NASA SP-7500

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