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??? World Scientific

IBM® FileNet® Content Manager Version 5.2 provides full content lifecycle and extensive document management capabilities for digital content. IBM FileNet Content Manager is tightly integrated with the family of IBM FileNet products based on the IBM FileNet P8 technical platform. IBM FileNet Content Manager serves as the core content management, security management, and storage management engine for the products. This IBM Redbooks® publication covers the implementation best practices and recommendations for solutions that use IBM FileNet Content Manager. It introduces the functions and features of IBM FileNet Content Manager, common use cases of the product, and a design methodology that provides implementation guidance from requirements analysis through production use of the solution. We address administrative topics of an IBM FileNet Content Manager solution, including deployment, system administration and maintenance, and troubleshooting. Implementation topics include system architecture design with various options for scaling an IBM FileNet Content Manager system, capacity planning, and design of repository design logical structure, security practices, and application design. An important implementation topic is business continuity. We define business continuity, high availability, and disaster recovery concepts and describe options for those when implementing IBM FileNet Content Manager solutions. Many solutions are essentially a combination of information input (ingestion), storage, information processing, and presentation and delivery. We discuss some solution building blocks

that designers can combine to build an IBM FileNet Content Manager solution. This book is intended to be used in conjunction with product manuals and online help to provide guidance to architects and designers about implementing IBM FileNet Content Manager solutions. Many of the features and practices described in the book also apply to previous versions of IBM FileNet Content Manager.

Monitoring of Harmful Algal Blooms Oxford University Press

Have you ever wondered what it is like to work on a nuclear power plant? Robert Dutch worked in the UK's nuclear industry for many years as a scientist and then as a tutor at a nuclear training center. He also holds degrees in theology. Drawing upon his qualifications and experience Robert addresses the controversial issue of nuclear power from a Christian perspective. In contrast to a negative nuclear narrative often portrayed, he presents a positive nuclear narrative alongside other ways of generating electricity. Be prepared to be challenged to think seriously about nuclear's merits in providing clean, low-carbon electricity.

The Human Side of Cyber Conflict SAGE Publications

The design and evaluation of questionnaires—and of other written and oral materials—is a challenging endeavor, fraught with potential pitfalls. **Cognitive Interviewing: A Tool for Improving Questionnaire Design** describes a means of systematically developing survey questions through investigations that intensively probe the thought processes of individuals who are presented with those inquiries. The work provides general guidance about questionnaire design, development, and pre-testing sequence, with an emphasis on the cognitive interview. In particular, the book gives detailed instructions about the use of verbal probing techniques, and how one can elicit additional information from subjects about their thinking and about the manner in which they react to tested questions. These tools help researchers discover how well their questions are working, where

they are failing, and determine what they can do to rectify the wide variety of problems that may surface while working with questionnaires.

Science & Engineering Indicators Springer

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Multimedia Springer Nature

Thoroughly updated for new breakthroughs in multimedia; The internationally bestselling **Multimedia: Making it Work** has been fully revised and expanded to cover the latest technological advances in multimedia. You will learn to plan and manage multimedia projects, from dynamic CD-ROMs and DVDs to professional websites. Each chapter includes step-by-step

instructions, full-color illustrations and screenshots, self-quizzes, and hands-on projects.

Let There Be Light! Cambridge University Press

Twenty First Century Science* is a suite of complementary specifications offering flexible and exciting options for science at GCSE* is unique in having been extensively trialled over three years with more than 6,000 students in each year* is motivating, stimulating and relevant. The specifications and resources are the products of close collaboration between the University of York Science Education Group, the Nuffield Curriculum Centre, OCR, and Oxford University Press. The GCSE Physics course contains seven modules: P1 The Earth in the Universe* P2 Radiation and life* P3 Radioactive materials* P4 Explaining motion* P5 Electric circuits* P6 The wave model of radiation* P7 Further physics, including Observing the sky with the naked eye, Telescopes, Stars and Galaxies, the Birth and Death of Stars, and the Astronomical Community. P1 to 3 are as modules P1 to 3 in GCSE Science, and P4 to 6 are as modules P4 to 6 in GCSE Additional Science. A comprehensive set of resources is available: A Textbook* A Workbook which can be used for homework and provides the student with a set of summary notes to help with revision.* A Teacher and Technician Guide with lesson plans for P7, including assessments, homeworks, and activity sheets. For P1 to 3 and P4 to 6 please see the Teacher and Technician Guides for GCSE Science and GCSE Additional Science. For more information,

visit: www.twentyfirstcenturyscience.org
Flight Stability and Automatic Control
OUP Oxford

In the past decade there has been an intense growth in the number of library publishing services supporting faculty and students. Unified by a commitment to both access and service, library publishing programs have grown from an early focus on backlist digitization to encompass publication of student works, textbooks, research data, as well as books and journals. This growing engagement with publishing is a natural extension of the academic library's commitment to support the creation of and access to scholarship. This volume includes chapters by some of the most talented thinkers in this area of librarianship, exploring topics such as the economics of publishing and the challenges of collaboration, and surveying the service landscape for publishing in support of a variety of formats and methods.

Data Management for Researchers Hyperion Books

Serving as a suite of complementary specifications, this title offers options for science at GCSE. Its

specifications and resources are the products of collaboration between the University of York Science Education Group, the Nuffield Curriculum Centre, OCR, and Oxford University Press.

CERN Courier Humana Press

Buddhist philosophy of Anicca (impermanence), Dukkha (suffering), and

GCSE Additional Science Wolfram Media

The general theory of orthogonal polynomials was developed in the late 19th century from a study of continued fractions by P. L. Chebyshev, even though special cases were introduced earlier by Legendre, Hermite, Jacobi, Laguerre, and Chebyshev himself. It was further developed by A. A. Markov, T. J. Stieltjes, and many other mathematicians. The book by Szego, originally published in 1939, is the first monograph devoted to the theory of orthogonal polynomials and its applications in many areas, including analysis, differential equations, probability and mathematical physics. Even after all the years that have passed since the book first appeared, and with many other books on the subject published since then, this classic monograph by Szego remains an indispensable resource both as a textbook and as a reference book. It can be recommended to anyone who wants to be acquainted with this central topic of mathematical analysis.

Getting the Word Out John Wiley & Sons

The human brain has some capabilities that the brains of other animals lack. It is to these distinctive capabilities that our species owes its dominant position. Other animals have stronger muscles or sharper claws, but we have cleverer brains. If machine brains one day come to surpass human brains in general intelligence, then this new superintelligence could become very powerful. As the fate of the gorillas now depends more on us humans than on the gorillas themselves, so the fate of our species then would come to depend on the actions of the machine superintelligence. But we have one advantage: we get to make the first move. Will it be possible to construct a seed AI or otherwise to engineer initial conditions so as to make an intelligence explosion survivable? How could one achieve a controlled detonation? To get closer to an answer to this question, we must make our way through a fascinating landscape of topics and considerations. Read the book and learn about oracles, genies, singletons; about boxing methods, tripwires, and mind crime; about humanity's cosmic endowment and differential technological development; indirect normativity, instrumental convergence, whole brain emulation and

technology couplings; Malthusian economics and dystopian evolution; artificial intelligence, and biological cognitive enhancement, and collective intelligence.

This profoundly ambitious and original book picks its way carefully through a vast tract of forbiddingly difficult intellectual terrain. Yet the writing is so lucid that it somehow makes it all seem easy. After an utterly engrossing journey that takes us to the frontiers of thinking about the human condition and the future of intelligent life, we find in Nick Bostrom's work nothing less than a reconceptualization of the essential task of our time.

Document Analysis And Text Recognition: Benchmarking State-of-the-art Systems
Penguin

Educating dual language learners (DLLs) and English learners (ELs) effectively is a national challenge with consequences both for individuals and for American society. Despite their linguistic, cognitive, and social potential, many ELs—who account for more than 9 percent of enrollment in grades K-12 in U.S. schools—are struggling to meet the requirements for academic success, and their prospects for success in postsecondary education and in the workforce are jeopardized as a result. Promoting the Educational Success of Children and Youth Learning English: Promising Futures examines how evidence based on research relevant to the development of DLLs/ELs from birth to age 21 can inform education and health policies and related practices that can result in better educational outcomes. This report makes recommendations for policy, practice, and research and data collection focused on addressing the challenges in caring for and educating DLLs/ELs from birth to grade 12.
Schneier on Security Springer

Documents usually have a content and a structure. The content refers to the text of the document, whereas the structure refers to how a document is logically organized. An increasingly common way to encode the structure is through the use of a mark-up language. Nowadays, the most widely used mark-up language for representing structure is the eXtensible Mark-up Language (XML). XML can be used to provide a focused access to documents, i.e. returning XML elements, such as sections and paragraphs, instead of whole documents in response to a query. Such focused strategies are of particular benefit for information repositories containing long documents, or documents covering a wide variety of topics, where users are directed to the most relevant content within a document. The increased adoption of XML to represent a document structure requires the development of tools to effectively access documents marked-up in XML. This book provides a detailed description of query languages, indexing strategies, ranking algorithms, presentation

scenarios developed to access XML documents. Major advances in XML retrieval were seen from 2002 as a result of INEX, the Initiative for Evaluation of XML Retrieval. INEX, also described in this book, provided test sets for evaluating XML retrieval effectiveness. Many of the developments and results described in this book were investigated within INEX.

Table of Contents: Introduction / Basic XML Concepts / Historical Perspectives / Query Languages / Indexing Strategies / Ranking Strategies / Presentation Strategies / Evaluating XML Retrieval Effectiveness / Conclusions

Fundamentals of Computer Programming with C# Pelagic Publishing Ltd

A comprehensive guide to everything scientists need to know about data management, this book is essential for researchers who need to learn how to organize, document and take care of their own data. Researchers in all disciplines are faced with the challenge of managing the growing amounts of digital data that are the foundation of their research. Kristin Briney offers practical advice and clearly explains policies and principles, in an accessible and in-depth text that will allow researchers to understand and achieve the goal of better research data management. Data Management for Researchers includes sections on:

* The data problem – an introduction to the growing importance and challenges of using digital data in research. Covers both the inherent problems with managing digital information, as well as how the research landscape is changing to give more value to research datasets and code. *

The data lifecycle – a framework for data's place within the research process and how data's role is changing. Greater emphasis on data sharing and data reuse will not only change the way we conduct research but also how we manage research data. * Planning for data management – covers the many aspects of data management and how to put them together in a data management plan. This section also includes sample data management plans. *

Documenting your data – an often overlooked part of the data management process, but one that is critical to good management; data without documentation are frequently unusable. * Organizing your data – explains how to keep your data in order using organizational systems and file naming conventions. This section also covers using a database to organize and analyze content. *

Improving data analysis – covers managing information through the analysis process. This section starts by comparing the management of raw and analyzed data and then describes ways to make analysis easier, such as spreadsheet best practices. It also examines practices for research code, including version control systems. *

Managing secure and private data – many researchers are dealing with data that require extra security. This section outlines what data falls into this category and some of the policies that apply, before addressing the best practices for keeping data secure. * Short-term storage – deals with the practical matters of storage and backup and covers the many options available. This section also goes through the best practices to insure that data are not lost. * Preserving and archiving your data – digital data can have a long life if properly cared

for. This section covers managing data in the long term including choosing good file formats and media, as well as determining who will manage the data after the end of the project. *

Sharing/publishing your data – addresses how to make data sharing across research groups easier, as well as how and why to publicly share data. This section covers intellectual property and licenses for datasets, before ending with the altmetrics that measure the impact of publicly shared data. *

Reusing data – as more data are shared, it becomes possible to use outside data in your research. This chapter discusses strategies for finding datasets and lays out how to cite data once you have found it. This book is designed for active scientific researchers but it is useful for anyone who wants to get more from their data: academics, educators, professionals or anyone who teaches data management, sharing and preservation. "An excellent practical treatise on the art and practice of data management, this book is essential to any researcher, regardless of subject or discipline."

—Robert Buntrock, Chemical Information Bulletin
[New 2015 A-level Psychology](#) National Academies Press

New 2017 Cambridge A Level Maths and Further Maths resources help students with learning and revision. Written for the OCR AS/A Level Mathematics specifications for first teaching from 2017, this print Student Book covers the content for AS and the first year of A Level. It balances accessible exposition with a wealth of worked examples, exercises and opportunities to test and consolidate learning, providing a clear and structured pathway for progressing through the course. It is underpinned by a strong pedagogical approach, with an emphasis on skills development and the synoptic nature of the course. Includes answers to aid independent study.

Promoting the Educational Success of Children and Youth Learning English Cambridge University Press

An accessible introductory textbook on general relativity, covering the theory's foundations, mathematical formalism and major applications.

[Handbook of Document Image Processing and Recognition](#) Wipf and Stock Publishers

Elucidating the spatial and temporal dynamics of how things connect has become one of the most important areas of research in the 21st century. Network science now pervades nearly every science domain, resulting in new discoveries in a host of dynamic social and natural systems, including: how neurons connect and communicate in the brain, how information percolates within and among social networks, the evolution of science research through co-authorship networks, the spread of epidemics and many other complex phenomena. Over the past decade, advances in computational power have put the tools of network analysis in the hands of increasing numbers of scientists, enabling more explorations of our world than ever before possible. Information science, social sciences, systems biology, ecosystems ecology, neuroscience and physics all benefit from this movement, which combines graph theory with data sciences to develop and validate theories about the world around us. This book brings

together cutting-edge research from the network science field and includes diverse and interdisciplinary topics such as: modeling the structure of urban systems, behavior in social networks, education and learning, data network architecture, structure and dynamics of organizations, crime and terrorism, as well as network topology, modularity and community detection.

Cognitive Interviewing IBM Redbooks
Academic E-Books: Publishers, Librarians, and Users provides readers with a view of the changing and emerging roles of electronic books in higher education. The three main sections contain contributions by experts in the publisher/vendor arena, as well as by librarians who report on both the challenges of offering and managing e-books and on the issues surrounding patron use of e-books. The case study section offers perspectives from seven different sizes and types of libraries whose librarians describe innovative and thought-provoking projects involving e-books. Read about perspectives on e-books from organizations as diverse as a commercial publisher and an association press. Learn about the viewpoint of a jobber. Find out about the e-book challenges facing librarians, such as the quest to control costs in the patron-driven acquisitions (PDA) model, how to solve the dilemma of resource sharing with e-books, and how to manage PDA in the consortial environment. See what patron use of e-books reveals about reading habits and disciplinary differences. Finally, in the case study section, discover how to promote scholarly e-books, how to manage an e-reader checkout program, and how one library replaced most of its print collection with e-books. These and other examples illustrate how innovative librarians use e-books to enhance users' experiences with scholarly works.

XML Retrieval American Mathematical Soc.
The CIA's 2013 release of its book *The Central Intelligence Agency and Overhead Reconnaissance 1954 – 1974* is a fascinating and important historical document. It contains a significant amount of newly declassified material with respect to the U-2 and Oxcart programs, including names of pilots; codenames and cryptonyms; locations, funding, and cover arrangements; electronic countermeasures equipment; cooperation with foreign governments; and overflights of the Soviet Union, Cuba, China, and other countries. Originally published with a Secret/No Foreign Dissemination classification, this detailed study describes not only the program's technological and bureaucratic aspects, but also its political and international context, including the difficult choices faced by President Eisenhower in authorizing overflights of the Soviet Union and the controversy surrounding the shoot down there of U-2 pilot Francis Gary Powers in 1960. The authors discuss the origins of the U-2, its top-secret testing, its specially designed high-altitude cameras and complex life-support systems, and even the possible use of poison capsules by its pilots, if captured. They call attention to the crucial importance of the U-2 in the gathering of strategic and tactical intelligence, as well as the controversies that the program unleashed. Finally, they discuss the CIA's development of a successor to the U-2, the Oxcart, which became the world's most technologically advanced aircraft. For the first time, the more

complete 2013 release of this historical text is available in a professionally typeset format, supplemented with higher quality photographs that will bring alive these incredible aircraft and the story of their development and use by the CIA. This edition also includes a new preface by author Gregory W. Pedlow and a foreword by Chris Pocock. Skyhorse Publishing, as well as our Arcade imprint, are proud to publish a broad range of books for readers interested in history--books about World War II, the Third Reich, Hitler and his henchmen, the JFK assassination, conspiracies, the American Civil War, the American Revolution, gladiators, Vikings, ancient Rome, medieval times, the old West, and much more. While not every title we publish becomes a New York Times bestseller or a national bestseller, we are committed to books on subjects that are sometimes overlooked and to authors whose work might not otherwise find a home.

The Age of Em Osborne Publishing

You will easily synthesize and analyze oligonucleotide conjugates by following the step-by-step protocols presented in this volume. These techniques are widely used by all molecular biologists and antisense researchers and find special application by pharmacologists working in new drug development and quality assurance assay.