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Advanced LIMS Technology Case Studies and Business Opportunities

Springer Science & Business Media Laboratory Information Managements Systems (LIMS) are either custom-built or off-the-shelf solutions to the problems of controlling the flow of data through laboratories. In this book commercial relevance is ensured by authors from major industrial organizations who demonstrate by example successful application of the technology. This book provides an excellent up-to-date overview of this intensely competitive field.

Expert Systems in Chemistry Research

CRC Press Expert systems allow scientists to access, manage, and apply data and specialized knowledge from various disciplines to their own research. Expert Systems in Chemistry Research explains the general scientific basis and computational principles behind expert systems and

demonstrates how they can improve the efficiency of scientific workflows and support decision-making processes. Focused initially on clarifying the fundamental concepts, limits, and drawbacks of using computer software to approach human decision making, the author also underscores the importance of putting theory into practice. The book highlights current capabilities for planning and monitoring experiments, scientific data management and interpretation, chemical characterization, problem solving, and methods for encoding chemical data. It also examines the challenges as well as requirements, strategies, and considerations for implementing expert systems effectively in an existing laboratory software environment. Expert Systems in Chemistry Research covers various artificial intelligence technologies used to support expert systems, including nonlinear statistics, wavelet transforms, artificial neural networks, genetic algorithms, and fuzzy logic. This definitive text provides researchers, scientists, and engineers with a cornerstone resource for developing new applications in chemoinformatics, systems design, and other emerging fields.

Encyclopedia of Spectroscopy and Spectrometry

Academic Press The Second Edition of the Encyclopedia of Spectroscopy and Spectrometry pulls key information into a single source for quick access to answers and/or in-depth examination of topics. "SPEC-2" covers theory, methods, and applications for researchers, students, and professionals—combining proven techniques and new insights for comprehensive coverage of the field. The content is available in print and online via ScienceDirect, the latter of which offers optimal flexibility, accessibility, and usability through anytime, anywhere access for multiple users and superior search functionality. No other work gives analytical and physical (bio)chemists such unprecedented access to the literature. With 30% new content, SPEC-2 maintains the "authoritative, balanced coverage" of the original work while also breaking new ground in spectroscopic research. Incorporates more than 150 color figures, 5,000 references, and 300 articles (30% of which are new), for a thorough examination of the field Highlights new research and promotes innovation in applied areas ranging from food science and forensics to biomedicine and health Features a new co-editor: David Koppenaal of Pacific Northwest National Laboratory, Washington, USA, whose work in atomic mass spectrometry has been recognized internationally

Advanced Information Systems Engineering Workshops

CAiSE 2013 International Workshops, Valencia, Spain, June 17-21, 2013, Proceedings

Springer This book constitutes the thoroughly refereed proceedings of eight international workshops held in Valencia, Spain, in conjunction with the 25th International Conference on Advanced Information Systems Engineering, CAiSE 2013, in June 2013. The 36 full and 12 short papers have undertaken a high-quality and selective acceptance policy, resulting in acceptance rates of up to 50% for full research papers. The eight workshops were Approaches for Enterprise Engineering Research (AppEER), International Workshop on BUSiness/IT ALignment and Interoperability (BUSITAL), International Workshop on Cognitive Aspects of Information Systems Engineering (COGNISE), Workshop on Human-Centric Information Systems (HC-IS), Next Generation Enterprise and Business Innovation Systems (NGEBIS), International Workshop on Ontologies and Conceptual Modeling (OntoCom), International Workshop on Variability Support in Information Systems (VarIS), International Workshop on Information Systems Security Engineering (WISSE).

Management: A Bibliography for NASA Managers

The British National Bibliography

Management

NASA SP-7500

Management, a continuing bibliography with indexes

Advanced Methodologies and Technologies in Digital Marketing and Entrepreneurship

IGI Global As businesses aim to compete internationally, they must be apprised of new methods and technologies to improve their digital marketing strategy in order to remain ahead of their competition. Trends in entrepreneurship that drive consumer engagement and business initiatives, such as social media marketing, yields customer retention and positive feedback. Advanced Methodologies and Technologies in Digital Marketing and Entrepreneurship provides information on emerging trends in business innovation, entrepreneurship, and marketing strategies. While highlighting challenges such as successful social media interactions and consumer engagement, this book explores valuable information within various business environments and industries such as e-commerce, small and medium enterprises, hospitality and tourism management, and customer relationship management. This book is an ideal source for students, marketers, social media marketers, business managers, public relations professionals, promotional coordinators, economists, hospitality industry professionals, entrepreneurs, and researchers looking for relevant information on new methods in digital marketing and entrepreneurship.

Advanced Materials & Processes

Scientific and Technical Aerospace Reports

LIMS

Applied Information Technology for

the Laboratory

Springer Computing and information management technologies touch our lives in the environments where we live, play and, work. High tech is becoming the standard. Those of use who work in a laboratory environment are faced with an obvious challenge. How do we best apply these technol ogies to make money for our companies? The first level of deliverable benefits is achieved through task automation. The second level is ob tained by integrating the individual islands of automation. The third, or top level, of benefits is related to applying intelligence to computing applications. The use of computing technology, at level one, to automate lab pro cedures, methods, and instruments has been profitable for many years. We can easily find yearly returns in the range of 10-50% for investments at this level. For level two, the integration of some applications has evolved and has led to data management systems and local area net working in the lab environment. Investment paybacks at level two are substantially higher, in the range of 200-400%. Examples of applications at the top level, that of intelligent systems and applications, are few and far between. And what about the payback for investments at this level? With such limited experience at level three, we can only estimate the benefits. But again, they appear to be much higher, in the range of 2000- 4000%.

Masters Theses in the Pure and Applied Sciences

Accepted by Colleges and Universities of the United States and Canada Volume 34

Springer Science & Business Media Masters Theses in the Pure and Applied Sciences was first conceived, published, and disseminated by the Center for Information and Numerical Data Analysis and Synthesis (CINDAS) * at Purdue University in 1957, starting its coverage of theses with the academic year 1955. Beginning with Volume 13, the printing and dissemination phases of the activity were transferred to University Microfilms/Xerox of Ann Arbor, Michigan, with the thought that such an arrangement would be more beneficial to the academic and general scientific and technical community. After five years of this joint undertaking we had concluded that it was in the interest of all con cerned

if the printing and distribution of the volumes were handled by an interna tional publishing house to assure improved service and broader dissemination. Hence, starting with Volume 18, Masters Theses in the Pure and Applied Sciences has been disseminated on a worldwide basis by Plenum Publishing Cor poration of New York, and in the same year the coverage was broadened to include Canadian universities. All back issues can also be ordered from Plenum. We have reported in Volume 34 (thesis year 1989) a total of 13,377 theses titles from 26 Canadian and 184 United States universities. We are sure that this broader base for these titles reported will greatly enhance the value of this important annual reference work. While Volume 34 reports theses submitted in 1989, on occasion, certain univer sities do report theses submitted in previous years but not reported at the time.

Whitaker's Books in Print

Monthly Catalog of United States Government Publications

Smart Digital Manufacturing

A Guide for Digital Transformation with Real Case Studies Across Industries

John Wiley & Sons The world progresses toward Industry 4.0, and manufacturers are challenged to successfully navigate this unique digital journey. To some, digitalization is a golden opportunity; to others, it is a necessary evil. But to optimist and pessimist alike, there is a widespread puzzlement over the practical details of digitalization. To many manufacturers, digital transformation is a vague and confusing concept they nevertheless must grapple with in order to survive the Fourth Industrial Revolution. The proliferation of digital manufacturing technologies adds to the confusion, leaving many manufacturers perplexed and unprepared, with little real insight into how emerging technologies can help them sustain a competitive edge in their markets. This book effectively conveys Siemens's knowledge and experience through a concept called "Smart Digital Manufacturing," a stepwise approach to realizing the promise of the Fourth Industrial Revolution. The Smart Digital

Manufacturing roadmap provides guidance and enables low-risk, high-reward adoption of new manufacturing software technologies through a series of tipping-point investment decisions that result in optimized manufacturing performance. The book provides readers with a clear understanding of what digital technology has to offer them, and how and when to invest in these essential components of tomorrow?s factories. René Wolf is Senior Vice President of Manufacturing Operations Management Software for Siemens Digital Industries Software, a business unit of the Siemens Digital Factory Division. Raffaello Lepratti is Vice President of Business Development and Marketing for Siemens Digital Industries Software.

Research and Development

The Globalisation of Production and Technology

*Belhaven Press Industrial corporations are increasingly spreading their research and production, shifting away from their established industrial heartlands and opening up new overseas centres. This book is the first broad survey of this process and its implications for corporate strategy and industrial change. It reveals that since the 1980s a major shift has occurred in the overseas activities of firms, although variable by sector and nationality. Initially production centres shifted but now increasing sales, research and development and management functions have become geographically fluid, literally redrawing the world economic map. By integrating theoretical perspectives with original case study research, the book outlines the scale, nature and impact of the process and outlines the challenges and implications both for corporate management strategy and government and supranational industrial and innovation policy.

Energy Research Abstracts

Semiannual, with semiannual and annual indexes. References to all scientific and technical literature coming from DOE, its laboratories, energy centers, and contractors. Includes all works deriving from DOE, other related government-sponsored information, and foreign nonnuclear information. Arranged under 39 categories, e.g., Biomedical sciences, basic studies; Biomedical sciences, applied studies; Health and safety; and Fusion energy. Entry gives bibliographical information and abstract. Corporate, author, subject, report number indexes.

Findex

Administration & Management

Impact of Advances in Computing and Communications Technologies on Chemical Science and Technology

Report of a Workshop

National Academies Press The Chemical Sciences Roundtable provides a forum for discussing chemically related issues affecting government, industry and government. The goal is to strengthen the chemical sciences by foster communication among all the important stakeholders. At a recent Roundtable meeting, information technology was identified as an issue of increasing importance to all sectors of the chemical enterprise. This book is the result of a workshop convened to explore this topic.

Monthly Catalogue, United States Public Documents

Innovative Process Development in Metallurgical Industry

Concept to Commission

Springer This book describes the phases for innovative metallurgical process development, from concept to commercialization. Key features of the book include: • Need for process innovation • Selection and optimization of process steps • Determination of the commercial feasibility of a process including engineering and equipment selection • Determination of the environmental footprint of a process • Case-study examples of innovative process development

The AI-Powered Enterprise

Harness the Power of Ontologies to Make Your Business Smarter, Faster, and More Profitable

LifeTree Media Learn how to develop and employ an ontology, the secret weapon for successfully using artificial intelligence to create a powerful competitive advantage in your business. The AI-Powered Enterprise examines two fundamental questions: First, how will the future be different as a result of artificial intelligence? And second, what must companies do to stake their claim on that future? When the Web came along in the mid-90s, it transformed the behavior of customers and remade whole industries. Now, as part of its promise to bring revolutionary change in untold ways to human activity, artificial intelligence—AI—is about to create another complete transformation in how companies create and deliver value to customers. But despite the billions spent so far on bots and other tools, AI continues to stumble. Why can't it magically use all the data organizations generate to make them run faster and better? Because something is missing. AI works only when it understands the soul of the business. An ontology is a holistic digital model of every piece of information that matters to the business, from processes to products to people, and it's what makes the difference between the promise of AI and delivering on that promise. Business leaders who want to catch the AI wave—rather than be crushed by it—need to read The AI-Powered Enterprise. The book is the first to combine a sophisticated explanation of how AI works with a practical approach to applying AI to the problems of business, from customer experience to business operations to product development.

Cumulative Book Index

A world list of books in the English language.

Who's who in Finance and Business

Information Systems and

Management in Media and Entertainment Industries

Springer This book defines an agenda for research in information management and systems for media and entertainment industries. It highlights their particular needs in production, distribution, and consumption. Chapters are written by practitioners and researchers from around the world, who examine business information management and systems in the larger context of media and entertainment industries. Human, management, technological, and content creation aspects are covered in order to provide a unique viewpoint. With great interdisciplinary scope, the book provides a roadmap of research challenges and a structured approach for future development across areas such as social media, eCommerce, and eBusiness. Chapters address the tremendous challenges in organization, leadership, customer behavior, and technology that face the entertainment and media industries every day, including the transformation of the analog media world into its digital counterpart. Professionals or researchers involved with IT systems management, information policies, technology development or content creation will find this book an essential resource. It is also a valuable tool for academics or advanced-level students studying digital media or information systems.

Pharmaceutical Quality Control Lab Guidebook

UniversityOfHealthCare Pharmaceutical Quality Control Lab teaches the history of regulations affecting quality control in pharmaceutical labs and their importance, and then goes into the specifics of dealing with results in a pharmaceutical lab. It contains an interactive flow chart, numerous step-by-step instructions, questions, SOP model, and a case study. It is suitable for GMP training.

Scientific Data Management Challenges, Technology, and Deployment

CRC Press Dealing with the volume, complexity, and diversity of data currently being generated by scientific experiments and simulations often causes scientists to waste productive time. Scientific Data Management:

Challenges, Technology, and Deployment describes cutting-edge technologies and solutions for managing and analyzing vast amounts of data, helping scientists focus on their scientific goals. The book begins with coverage of efficient storage systems, discussing how to write and read large volumes of data without slowing the simulation, analysis, or visualization processes. It then focuses on the efficient data movement and management of storage spaces and explores emerging database systems for scientific data. The book also addresses how to best organize data for analysis purposes, how to effectively conduct searches over large datasets, how to successfully automate multistep scientific process workflows, and how to automatically collect metadata and lineage information. This book provides a comprehensive understanding of the latest techniques for managing data during scientific exploration processes, from data generation to data analysis. Enhanced by numerous detailed color images, it includes real-world examples of applications drawn from biology, ecology, geology, climatology, and more. Check out Dr. Shoshani discuss the book during an interview with International Science Grid This Week (iSGTW): http://www.isgtw.org/?pid=1002259

CAD/CAM Abstracts

Business India

Computer Applications in Food Technology

Use of Spreadsheets in Graphical, Statistical, And Process Analysis

Elsevier The Institute of Food Technologists (IFT) recently endorsed the use of computers in food science education. The minimum standards for degrees in food science, as suggested by IFT,"require the students to use computers in the solution of problems, the collection and analysis of data, the control processes, in addition to word processing."Because they are widely used in business, allow statistical and graphical of experimental data, and can mimic laboratory experimentation, spreadsheets provide an ideal tool for learning the important features of computers and programming. In addition, they are ideally suited for food science students, who usually do not have an extensive mathematical background. Drawing from the many courses he has taught at UC Davis, Dr. Singh covers the general basics of spreadsheets using examples specific to food science. He

includes more than 50 solved problems drawn from key areas of food science, namely food microbiology, food chemistry, sensory evaluation, statistical quality control, and food engineering. Each problem is presented with the required equations and detailed steps necessary for programming the spreadsheet. Helpful hints in using the spreadsheets are also provided throughout the text. Key Features * The first book to integrate speadsheets in teaching food science and technology * Includes more than 50 solved examples of spreadsheet use in food science and engineering * Presents a step-by-step introduction to spreadsheet use * Provides a food composition database on a computer disk

Building a Digital Forensic Laboratory

Establishing and Managing a Successful Facility

Butterworth-Heinemann The need to professionally and successfully conduct computer forensic investigations of incidents and crimes has never been greater. This has caused an increased requirement for information about the creation and management of computer forensic laboratories and the investigations themselves. This includes a great need for information on how to cost-effectively establish and manage a computer forensics laboratory. This book meets that need: a clearly written, non-technical book on the topic of computer forensics with emphasis on the establishment and management of a computer forensics laboratory and its subsequent support to successfully conducting computer-related crime investigations. Provides guidance on creating and managing a computer forensics lab Covers the regulatory and legislative environment in the US and Europe Meets the needs of IT professionals and law enforcement as well as consultants

Real-World Decision Support Systems

Case Studies

Springer This book presents real-world decision support systems, i.e., systems that have been running for some time and as such have been tested in real environments and complex situations; the cases are from

various application domains and highlight the best practices in each stage of the system's life cycle, from the initial requirements analysis and design phases to the final stages of the project. Each chapter provides decision-makers with recommendations and insights into lessons learned so that failures can be avoided and successes repeated. For this reason unsuccessful cases, which at some point of their life cycle were deemed as failures for one reason or another, are also included. All decision support systems are presented in a constructive, coherent and deductive manner to enhance the learning effect. It complements the many works that focus on theoretical aspects or individual module design and development by offering 'good' and 'bad' practices when developing and using decision support systems. Combining high-quality research with real-world implementations, it is of interest to researchers and professionals in industry alike.

Government Reports Announcements & Index

Government Reports Annual Index

Sections 1-2. Keyword Index.--Section 3. Personal author index.--Section 4. Corporate author index.-- Section 5. Contract/grant number index, NTIS order/report number index 1-E.--Section 6. NTIS order/report number index F-Z.

Business Periodicals Index

Genetic Engineering News

GEN.

CIM ICM Bulletin Technical Papers

Peer-reviewed Technical Papers Published by the Canadian Institute

of Mining, Metallurgy and Petroleum