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Proceedings of the 4th Congrès International de Géotechnique - Ouvrages -Structures-Hoang-Hung Tran-Nguyen 2017-10-20 This proceedings volume for the 4th international conference CIGOS 2017 (Congrès International de Géotechnique - Ouvrages - Structures) presents novel technologies, solutions and research advances, making it an excellent guide in civil engineering for researchers, students, and professional engineers alike. Since 2010, CIGOS has become a vital forum for international scientific exchange on civil engineering. It aims to promote beneficial economic partnerships and technology exchanges between enterprises, worldwide institutions and universities. Following the success of the last three CIGOS conferences (2010, 2013 and 2015), the 4th conference was held at Ho Chi Minh City University of Technology, Ho Chi Minh City (Saigon), Vietnam on 26 to 27 October 2017. The main scientific themes of CIGOS 2017 were focused on 'New Challenges in Civil Engineering'.

Methods and Tools for Co-operative and Integrated Design-Serge Tichkiewitch 2013-03-14 SMC COLOMBIER FONTAINE is a company in the AFE METAL group, which uses a sand casting process to manufacture steel primary parts. To reduce the "time to market", primary part producers need to reduce the time and cost of the industrialisation process. These factors, in addition to the global goal of improving process performance levels, brought SMC to develop numerical technologies and traceability from quotation to part delivery [1]. Nowadays, these improvements are incorporated into company culture. The next step in reducing the time and cost of the production process is to introduce a complete methodology of use and experience feedback of these new models and methods. To be able to generalise this approach, a CAD methodology is essential and thus becomes a step in the industrialisation process. The amount of improvements engendered by the numerical technologies largely justifies the time investment made to obtain a numerical definition of all the different elements in the sand casting process [2]. The objective of our approach is to optimise the product and its production process by generating a complete numerical reference, through the integration of quotation, CAD, simulation, new manufacturing technologies and effective production processes.

Chemical Engineering Software Guide-CAE Consultants, Inc 1984

Pipe Drafting and Design-Roy A. Parisher 2001-10-24 Pipe designers and drafters provide thousands of piping drawings used in the layout of industrial and other facilities. The layouts must comply with safety codes, government standards, client specifications, budget, and start-up date. Pipe Drafting and Design, Second Edition provides step-by-step instructions to walk pipe designers and drafters and students in Engineering Design Graphics and Engineering Technology through the creation of piping arrangement and isometric drawings using symbols for fittings, flanges, valves, and mechanical equipment. The book is appropriate primarily for pipe design in the petrochemical industry. More than 350 illustrations and photographs provide examples and visual instructions. A unique feature is the systematic arrangement of drawings that begins with the layout of the structural foundations of a facility and continues through to the development of a 3-D model. Advanced chapters discuss the customization of AutoCAD, AutoLISP and details on the use of third-party software to create 3-D models from which elevation, section and isometric drawings are extracted including bills of material. Covers drafting and design fundamentals to detailed advice on the development of piping drawings using manual and AutoCAD techniques 3-D model images provide an uncommon opportunity to visualize an entire piping facility Each chapter includes exercises and questions designed for review and practice

Marine Structural Design Calculations-Mohamed El-Reedy 2014-09-30 The perfect guide for veteran structural engineers or for engineers just entering the field of offshore design and construction, Marine Structural Design Calculations offers structural and geotechnical engineers a multitude of worked-out marine structural construction and design calculations. Each calculation is discussed in a concise, easy-to-understand manner that provides an authoritative guide for selecting the right formula and solving even the most difficult design calculation. Calculation methods for all areas of marine structural design and construction are presented and practical solutions are provided. Theories, principles, and practices are summarized. The concentration focuses on formula selection and problem solving. A "quick look up guide", Marine Structural Design Calculations includes both fps and SI units and is divided into categories such as Project Management for Marine Structures; Marine Structures Loads and Strength; Marine Structure Platform Design; and Geotechnical Data and Pile Design. The calculations are based on industry code and standards like American Society of Civil Engineers and American Society of Mechanical Engineers, as well as institutions like the American Petroleum Institute and the US Coast Guard. Case studies and worked examples are included throughout the book. Calculations are based on industry code and standards such as American Society of Civil Engineers and American Society of Mechanical Engineers Complete chapter on modeling using SACS software and PDMS software Includes over 300 marine structural construction and design calculations Worked-out examples and case studies are provided throughout the book Includes a number of checklists, design schematics and data tables

Development of an Electrochemical Biosensor Platform and a Suitable Low-Impedance Surface Modification Strategy-Pires Carneiro, Leonardo 2014-11-17

A Manager's Guide to Database Technology-Michael Blaha 2001 "Features/benefits: focus is on strategies instead of on fine details; integrates real-life anecdotes; coverage of both newly developed applications and purchased software; discusses both operational applications (transaction-oriented) and analytical applications (data warehouses); specific recommendations denoted by icons; and abundant tables, figures, and bullet lists."--Jacket.

Computer Supported Cooperative Work in Design II-Weiming Shen 2006-02-26 This book constitutes the thoroughly refereed post-proceedings of the 9th International Conference on Computer Supported Cooperative Work in Design, CSCWD 2005, held in Coventry, UK, in May 2005. The 65 revised full papers presented were carefully reviewed and selected from numerous submissions during at least two rounds of reviewing and improvement.

CAD Systems-John J. Allan 1977

Guide to Computer Aided Engineering Manufacturing & Construction Software-National Computing Centre (Manchester) 1985

Pilot Test of Methodology to be Used for Developing a Data Base for the Forest Service Pavement Design & Management System- 1983

Computerworld- 1986-10-06 For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

Nuclear Power Plants: Innovative Technologies for Instrumentation and Control Systems-Yang Xu 2020-02-14 This book presents a compilation of selected papers from the Fourth International Symposium on Software Reliability, Industrial Safety, Cyber Security and Physical Protection of Nuclear Power Plant, held in August 2019 in Guiyang, China. The purpose of the symposium was to discuss inspection, testing, certification and research concerning the software and hardware of instrument and control (I&C) systems used at nuclear power plants (NPP), such as sensors, actuators and control systems. The event provides a venue for exchange among

experts, scholars and nuclear power practitioners, as well as a platform for the combination of teaching and research at universities and enterprises to promote the safe development of nuclear power plants. Readers will find a wealth of valuable insights into achieving safer and more efficient instrumentation and control systems.

Advances in Software Engineering-Hakan Erdogmus 2013-03-20 This book contains both relevant real-world research, as well as reviews of different areas of interest in the software engineering literature, such as clone identification. The contents of the various sections will provide a better understanding of known problems and detailed treatment of advanced topics. Consequently, the book consolidates the work and findings from leading researchers in the software research community in key areas such as maintainability, architectural recovery, code analysis, software migration, and tool support.

Asian Oil & Gas- 2005

Data Sources- 2000

CAD/CAM Handbook-Eric Teicholz 1985

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-a-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.

The Chemical Engineer- 1996

OIL & GAS JOURNAL INTERNATIONAL PETROLEUM NEWS AND TECHNOLOGYT WEEK OF MARCH 2 1992- 1992

Manual of Photogrammetry-American Society for Photogrammetry and Remote Sensing 2004

Materiomics: Multiscale Mechanics of Biological Materials and Structures-Markus J. Buehler 2013-11-18 Multiscale mechanics of hierarchical materials plays a crucial role in understanding and engineering biological and bioinspired materials and systems. The mechanical science of hierarchical tissues and cells in biological systems has recently emerged as an exciting area of research and provides enormous opportunities for innovative basic research and technological advancement. Such advances could enable us to provide engineered materials and structure with properties that resemble those of biological systems, in particular the ability to self-assemble, to self-repair, to adapt and evolve, and to provide multiple functions that can be controlled through external cues. This book presents material from leading researchers in the field of mechanical sciences of biological materials and structure, with the aim to introduce methods and applications to a wider range of engineers.

Highly Integrated Microfluidics Design-Dan E. Angelescu 2011 The recent development of microfluidics has lead to the concept of lab-on-a-chip, where several functional blocks are combined into a single device that can perform complex manipulations and characterizations on the microscopic fluid sample. However, integration of multiple functionalities on a single device can be complicated. This cutting-edge resource focuses on the crucial aspects of integration in microfluidic systems. It serves as a one-stop guide to designing microfluidic systems that are highly integrated and scalable. This practical book covers a wide range of critical topics, from fabrication techniques and simulation tools, to actuation and sensing functional blocks and their inter-compatibility. This unique reference outlines the benefits and drawbacks of different approaches to microfluidic integration and provides a number of clear examples of highly integrated microfluidic systems.

Process Engineering- 1993

A-E-C- Automation Newsletter- 1988

Database Journal- 1982

Conference Proceedings- 1989

CEP Software Directory- 1995

International CAD/CAM Software Directory-Philip C. Flora 1985

Computerworld- 1993-07-12 For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

Frontiers of Liability-Peter Birks 1991 This is the first volume of essays arising out of a series of high-level seminars held in All Souls College, Oxford during the Spring of 1993. The contributors, among them distinguished judges and academics, have produced essays of sparkling quality which will be essential reading for anyone concerned about the future direction of English law.

Analysis, Synthesis, and Design of Chemical Processes-Richard Turton 2012 "Process design is the focal point of chemical engineering practice: the creative activity through which engineers continuously improve facility operations to create products that enhance life. Effective chemical engineering design requires students to integrate a broad spectrum of knowledge and intellectual skills, so they can analyze both the big picture and minute details - and know when to focus on each. Through three previous editions, this book has established itself as the leading resource for students seeking to apply what they've learned in real-world, open-ended process problems. The authors help students hone and synthesize their design skills through expert coverage of

preliminary equipment sizing, flowsheet optimization, economic evaluation, operation and control, simulation, and other key topics. This new Fourth Edition is extensively updated to reflect new technologies, simulation techniques, and process control strategies, and to include new pedagogical features including concise summaries and end-of-chapter lists of skills and knowledge."--pub. desc.

Petroleum Software Directory- 1998

Chemical Engineering- 1982

The Software Catalog- 1985

Computerworld- 1986-07-14 For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

Computer-aided Process Plant Design-Michael E. Leesley 1982

Computerized Facilities Planning-H. Lee Hales 1985

Rhizosphere Functioning and Structural Development as Complex Interplay between Plants, Microorganisms and Soil Minerals-Carsten W. Mueller 2019-12-19 The rhizosphere, the soil volume, which is directly affected by root activity, is an important hot spot for a multitude of biotic and abiotic processes. Carbon transfer from plants to microorganisms and to soil takes place in these small volumes around living roots, creating chemical gradients and zones of microbial activity over distinct temporal and spatial scales. Hydraulic and biogeochemical properties of the rhizosphere and the formation of complex three-dimensional structures such as micro- and macroaggregates in turn, result from complex feedbacks between physical, chemical and biological processes. The aim of this Research Topic is to advance our understanding of rhizosphere interactions by collating 16 original contributions across disciplines, including original research, reviews and specific methods on the processes taking place in the rhizosphere, to shed new light on one of the most important interfaces for the diversity of life on earth.

Archaeology and the Information Age-Sebastian Rahtz 2003-09-02 Traditional methods of making archaeological data available are becoming increasingly inadequate. Thanks to improved techniques for examining data from multiple viewpoints, archaeologists are now in a position to record different kinds of data, and to explore that data more fully than ever before. The growing availablility of computer networks and other technologies means that communication should become increasingly available to international archaeologists. Will this result in the democratisation of archaeological knowledge on a global basis? Contributors from Western and Eastern Europe, the Far East, Africa and the Americas seek to answer this and other questions about the way in which modern technology is revolutionising archaeological knowledge.