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Soft Computing in Textile Engineering Abhijit Majumdar,2010-11-29 Soft computing refers to a collection of computational techniques which study model and analyse complex phenomena As many textile engineering problems are inherently complex in nature soft computing techniques have often provided optimum solutions to these cases Although soft computing has several facets it mainly revolves around three techniques artificial neural networks fuzzy logic and genetic algorithms The book is divided into five parts covering the entire process of textile production from fibre manufacture to garment engineering These include soft computing techniques in yarn manufacture and modelling fabric and garment manufacture textile properties and applications and textile quality evaluation Covers the entire process of textile production from fibre manufacture to garment engineering including artificial neural networks fuzzy logic and genetic algorithms Examines soft computing techniques in yarn manufacture and modelling fabric and garment manufacture Specifically reviews soft computing in relation to textile properties and applications featuring garment modelling and sewing machines

Virtual Element Methods in Engineering Sciences Peter Wriggers,Fadi Aldakheel,Blaž Hudobivnik,2023-10-28 This book provides a comprehensive treatment of the virtual element method VEM for engineering applications focusing on its application in solid mechanics Starting with a continuum mechanics background the book establishes the necessary foundation for understanding the subsequent chapters It then delves into the VEM s Ansatz functions and projection techniques both for solids and the Poisson equation which are fundamental to the method The book explores the virtual element formulation for elasticity problems offering insights into its advantages and capabilities Moving beyond elasticity the VEM is extended to problems in dynamics enabling the analysis of dynamic systems with accuracy and efficiency The book also covers the virtual element formulation for finite plasticity providing a framework for simulating the behavior of materials undergoing plastic deformation Furthermore the VEM is applied to thermo mechanical problems where it allows for the investigation of coupled thermal and mechanical effects The book dedicates a significant portion to the virtual elements for fracture processes presenting techniques to model and analyze fractures in engineering structures It also addresses contact problems showcasing the VEM s effectiveness in dealing with contact phenomena The virtual element method s versatility is further demonstrated through its application in homogenization offering a means to understand the effective behavior of composite materials and heterogeneous structures Finally the book concludes with the virtual elements for beams and plates exploring their application in these specific structural elements Throughout the book the authors emphasize the advantages of the virtual element method over traditional finite element discretization schemes highlighting its accuracy flexibility and computational efficiency in various engineering contexts **Computer Engineering & Apps** ,2009-07 **Computer Engineering and Technology** Weixia Xu,Liquan Xiao,Chengyi Zhang,Jinwen Li,Liyan Yu,2013-10-01 This book constitutes the refereed proceedings of the 17th National Conference on Computer Engineering and Technology NCCET 2013 held in

Xining China in July 2013 The 26 papers presented were carefully reviewed and selected from 234 submissions They are organized in topical sections named Application Specific Processors Communication Architecture Computer Application and Software Optimization IC Design and Test Processor Architecture Technology on the Horizon   **Computer Engineering** Peter Peet Silvester,D. A. Lowther,1989 This text introduces the discipline of computer engineering to engineering students It discusses the principle issues of data representation and develops the basic logic circuits for data manipulation It closely examines a conventional though simple computer along with an assembler language suitable to its architecture and close to the IEEE 694 standard The interplay of hardware design and software structure is stressed throughout and is illustrated by examples ranging from string manipulation to input output management The text is distinguished by its clear straightforward writing style and is accompanied by an MS DOS disk containing a logic circuit simulator an assembler and a computer simulator The disk includes copies of all examples in the book allowing further exploration of logic circuits and step by step examination of central processor operation   **Issues in Computer Engineering: 2013 Edition** ,2013-05-01 Issues in Computer Engineering 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Circuits Research The editors have built Issues in Computer Engineering 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Circuits Research in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Computer Engineering 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at http www ScholarlyEditions com   **Engineering News and American Railway Journal** ,1894   **Elements of Engineering Design** Martyn S. Ray,1985 Textbook   *Serials in the British Library* ,1990   **Register ...** University of California, Berkeley,1958   **Bibliography of Scientific and Industrial Reports** ,1965-07   *College of Engineering* University of Michigan. College of Engineering,1917   Trends in Artificial Intelligence and Computer Engineering Miguel Botto-Tobar,Omar S. Gómez,Raul Rosero Miranda,Angela Díaz Cadena,Washington Luna-Encalada,2023-02-13 This book constitutes the proceedings of the 4th International Conference on Advances in Emerging Trends and Technologies ICAETT 2022 held in Riobamba Ecuador on 26 28 October 2022 proudly organized by Facultad de Inform tica y Electr nica FIE at Escuela Superior Polit cnica de Chimborazo and supported by GDEON ICAETT 2022 brings together top researchers and practitioners working in different domains of computer science to share their expertise and to discuss future developments and potential collaborations Presenting high quality peer reviewed papers the book discusses the following topics Artificial intelligence Communications e Learning AT for engineering applications Security Technology trends   **Manufacturing Engineering and Management** ,1960   University

Programs in Computer-aided Engineering, Design, and Manufacturing Ken Pin Chong,Bruce R. Dewey,Kynric Pell,1989 Proceedings of the Seventh Annual Conference on University Programs in Computer Aided Engineering Design and Manufacturing held in Laramie Wyoming July 23 26 1989 Sponsored by Apple Computer Inc Digital Equipment Corp International Business Machines National Computer Graphics Association and Zenith Data Systems This collection contains 44 papers on the use of computers in multidisciplinary engineering education and research environments These papers focus on networking on engineering colleges and discuss new trends in engineering applications of computer aided design manufacturing automation and networking Engineering News-record ,1918 *Engineering News* ,1906 Scientific and Engineering Problem-solving with the Computer William Ralph Bennett,1976 An introductory computer applications course for students in both the humanities and physical sciences **Directory of Graduate Programs in Engineering** ,1991 **Engineering Record, Building Record and Sanitary Engineer** ,1888

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