Optitex Fashion Design Software 3d Virtual Prototyping

In the United States, there are 3-4 million wheelchair users, with the number steadily increasing. This book focuses upon the design of garments for wheelchair-users by considering the shape of the body while in the sitting position, the needs of the user (functionality, fashionability, ease-of-use, affordability, safety), as well as the characteristics and properties of the materials used. The book references 186 original resources and includes their direct web link for in-depth reading. Keywords: Disabilities, Clothing for Disabled Persons, Wheelchair Users, Paraplegia, Functional Clothes, Kinematic Model, Scanning Procedure, 2D-3D/ 3D-2D Virtual Prototype, Body Posture Simulation, Virtual Pattern Making, Garment Fit Simulation.

The book includes the Proceedings of the Artificial Intelligence on Fashion and Textiles conference 2018 which provides state-of-the-art techniques and applications of AI in the fashion and textile industries. It is essential reading for scientists, researchers and R&D professionals working in the field of AI with applications in the fashion and textile industry; managers in the fashion and textile enterprises; and anyone with an interest in the applications of AI. Over the last two decades, with the great advancement of computer technology, academic research in artificial intelligence (AI) and its applications in fashion and textile supply chain has been becoming a very hot topic and has received greater attention from both academics and industrialists. A number of AI-related techniques has been successfully employed and proven to handle the problems including fashion sales forecasting, supply chain optimization, planning and scheduling, textile material defect detection, fashion and textile image recognition, fashion image and style retrieval, human body modeling and fitting, etc.

These three volumes (CCIS 442, 443, 444) constitute the proceedings of the 15th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, IPMU 2014, held in Montpellier, France, July 15-19, 2014. The 180 revised full papers presented together with five invited talks were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on uncertainty and imprecision on the web of data; decision support and uncertainty management in agri-environment; fuzzy implications; clustering; fuzzy measures and integrals; non-classical logics; data analysis; real-world applications; aggregation; probabilistic networks; recommendation systems and social networks; fuzzy systems; fuzzy logic in boolean framework; management of uncertainty in social networks; from different to same, from imitation to analogy; soft computing and sensory analysis; database systems; fuzzy set theory; measurement and sensory information; aggregation; formal methods for vagueness and uncertainty in a many-valued realm; graduality; preferences; uncertainty management in machine learning; philosophy and history of soft computing; soft computing and sensory analysis; similarity analysis; fuzzy logic, formal concept analysis and rough set; intelligent databases and information systems; theory of evidence; aggregation functions; big data - the role of fuzzy methods; imprecise probabilities: from foundations to applications; multinomial logistic regression on Markov chains for crop rotation modelling; intelligent measurement and control for nonlinear systems.

This book gathers the proceedings of the 8th International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA 2020), held at NIT Surathkal, Karnataka, India, on 4–5 January 2020. In these proceedings, researchers, scientists, engineers and practitioners share new ideas and lessons learned in the field of intelligent computing theories with prospective applications in various engineering disciplines. The respective papers cover broad areas of the information and decision sciences, and explore both the theoretical and practical aspects of data-intensive computing, data mining, evolutionary computation, knowledge management and networks, sensor networks, signal processing, wireless networks, protocols and architectures. Given its scope, the book offers a valuable resource for graduate students in various engineering disciplines.

Information Technology is growing rapidly. With the birth of high-resolution graphics, high-speed computing and user interaction devices Virtual Reality has emerged as a major new technology in the mid 90es, last century. Virtual Reality technology is currently used in a broad range of applications. The best known are games, movies, simulations, therapy. From a manufacturing standpoint, there are some attractive applications including training, education, collaborative work and learning. This book provides an up-to-date discussion of the current research in Virtual Reality and its applications. It describes the current Virtual Reality state-of-the-art and points out many areas where there is still work to be done. We have chosen certain areas to cover in this book, which we believe will have potential significant impact on Virtual Reality and its applications. This book provides a definitive resource for wide variety of people including academicians, designers, developers, educators, engineers, practitioners, researchers, and graduate students.

Create in 3D with Tinkercad! If you can dream it, you can create it—using Tinkercad. This free tool gives everyone the power to create 3D models, regardless of your level of experience. With the help of Tinkercad For Dummies, you'll have the knowledge you need to plan your designs, the know-how to utilize the platform's drag-and-drop tools to create your design, and the information you need to print or export your designs to use them elsewhere. Tinkercad is for everyone! It's simple enough to be used by kids and students, but robust enough that an adult could use it to create a complex product prototype. With more than 4 million designs posted in the Tinkercad community, the platform is also popular with teachers around the world. Why not join in on the fun? Create your Tinkercad account and join the community Use the drag-and-drop tools to build 3D images Export your designs to have them 3D printed Learn the principles of great 3D design Tinkercad is truly fun for all ages, and this hands-on guide makes it faster and easier to start using it right away!

An essential primer for students and first-stop reference for professionals, The Fashion Design Reference & Specification Booktakes the fashion designer through the entire design process, from conceiving a garment to marketing it. This valuable handbook contains the information and ideas essential to planning and executing fashion projects of every scale and distills them in an easy-to-use format that is compact enough to slip into a tote. Linking six central phases in the cycle of fashion—research, editing, design, construction, connection, and evolution—The Fashion Design Reference & Specification Book

helps designers develop effective strategies for building a cohesive collection and communicating their vision. The Reference & Specification Book series from Rockport Publishers offers students and practicing professionals in a range of creative industries must-have information in their area of specialty in an up-to-date, concise handbook.

9781903068939:Synopsis coming soon.....

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Process innovations - an improved way of doing things – help firms achieve higher-level performance by reducing the time and cost to produce a product or perform a service, and increasing productivity and growth. This book provides a comprehensive examination of process innovations occurring in the global fashion industry, with a focus on fashion brands from USA, Italy, and Japan. It offers practical insights for enhancing efficiency in the supply chain as well as management process such as work routines, information flow, and organization structures. Using case analyses, this book will help readers to grasp how successful fashion companies optimize their operations and advance their competitive position by integrating process innovations into their supply chain and management systems.

The first chapter provides an overview of the development of a novel agent-based simulation model of socio-environmental innovation diffusion. The second chapter shows the study about rendering of colours with three rendering engines. The third and fourth chapters are devoted to modelling clothes at different levels. The fifth chapter describes the modelling of computer simulation in the optimization of bioprocess technology. Chapters 6 and 7 formulate a physical model of deformation of steel and idea of constructing a scientific workshop focused on high-temperature processes. Chapter 8 formulates surrogate models. Chapter 9 shows computer simulation of high-frequency electromagnetic fields. Chapter 10 proposes the modelling of the task allocation problem by the use of Petri Nets. Chapter 11 presents various scenarios whose ranking is done according to defined criteria and weight coefficients.

CAD/CAM/CAE technologies find more and more applications in today’s industries, e.g., in the automotive, aerospace, and naval sectors. These technologies increase the productivity of engineers and researchers to a great extent, while at the same time allowing their research activities to achieve higher levels of performance. A number of difficult-to-perform design and manufacturing processes can be simulated using more methodologies available, i.e., experimental work combined with statistical tools (regression analysis, analysis of variance, Taguchi methodology, deep learning), finite element analysis applied early enough at the design cycle, CAD-based tools for design optimizations, CAM-based tools for machining optimizations.

Technical Sourcebook for Designers is completely devoted to preparing aspiring and professional apparel designers for the growing demand for technical design skills in the apparel industry. This comprehensive compilation presents technical design processes and industry standards that reflect current apparel production and manufacturing practices. Lee and Steen provide a holistic perspective of the role of technical design in apparel production, including such considerations as selection of fabrics, finding seasonal fashion trends, garment construction, and fit evaluation, all in the context of meeting the needs of the target consumer with cost-effective decisions. This edition includes a new section on real-life fit problems and solutions, more information on essential math for designers (such as grading and costing) plus coverage of product lifecycle management (PLM) and sustainability. An all new Chapter 8 on Sweater Product Design explores sweater design and manufacturing. More than 200 new images and newly added color in illustrations to show relevant design details. With versatile coverage of a variety of product categories including women's wear, menswear and knitwear, this text gives students essential tools to develop specification sheets and technical packages for specific markets.

This book examines in detail key aspects of sustainability in the textile industry, especially environmental, social and economic sustainability in the textiles and clothing sector. It highlights the various faces and facets of sustainability and their implications for textiles and the clothing sector.

A growing heterogeneity of demand, the advent of ';long tail markets';, exploding product complexities, and the rise of creative consumers are challenging companies in all industries to find new strategies to address these trends. Mass customization (MC) has emerged in the last decade as the premier strategy for companies in all branches of industry to profit from heterogeneity of demand and a broad scope of other customer demands.The research and practical experience collected in this book presents the latest thinking on how to make mass customization work. More than 50 authors from academia and management debate on what is viable now, what did not work in the past, and what lurks just below the radar in mass customization, personalization, and related fields.Edited by two leading authorities in the field of mass customization, both volumes of the book discuss, among many other themes, the latest research and insights on customization strategies, product design for mass customization, virtual models, co-design toolkits, customization value measurement, open source architecture, customization communities, and MC supply chains. Through a number of detailed case studies, prominent examples of mass customization are explained and evaluated in larger context and perspective.

With the continuing growth of private label brands, the demand for skilled technical designers has never been greater. The 3rd Edition of Complete Guide to Size Specification and Technical Design equips students with everything they need to know about measuring sample garments, creating fully graded spec sheets, fitting garments and grading patterns for production. Over 500 technical flats are clearly labeled with measurement points and instructions for taking measurements. A new chapter on children’s wear expands upon the already comprehensive coverage of knit and woven womenswear and menswear. The new edition includes more coverage of PLM/PDM and computer-aided technical design, model measuring, graded pattern nests and more. New to this Edition · New section on computer-aided technical design including coverage of PLM/PDM software such as Gerber, Lectra, and Optitex · New chapter on childrenswear with points of measure (POM) and grading information · Added instructions on measuring the human body · Expanded information on fitting and grading · Updated appendices with new fashion flats and body figure croquis and a metric conversion chart Complete Guide to Size Specification and Technical Design STUDIO--an online tool for more effective study! · Watch videos that

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Fibre2Fashion magazine—the print venture of Fibre2Fashion.com since 2011—is circulated among a carefully-chosen target audience globally, and reaches the desks of top management and decision-makers in the textiles, apparel and fashion industry. As one of India's leading industry magazines for the entire textile value chain, Fibre2Fashion Magazine takes the reader beyond the mundane headlines, and analyses issues in-depth.

Tinkercad For DummiesJohn Wiley & Sons

FLINS, originally an acronym for Fuzzy Logic and Intelligent Technologies in Nuclear Science, is now extended to include Computational Intelligence for applied research. The contributions of the FLINS conference cover state-of-the-art research, development, and technology for computational intelligence systems, with special focuses on data science and knowledge engineering for sensing decision support, both from the foundations and the applications points-of-view.

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Earlier this year, the Union government declared open the automatic route for foreign direct investment (FDI) in single-brand retail, making it easier for big Western brands to start retail operations in India from the coming financial year. The March 2018 edition of Fibre2Fashion explores the FDI decision, and also how and in what way this has a bearing on ‘Make in India’. Looking at Make in India from differing perspectives, this edition also carries stories ranging from technology to accessories and home fashion. In addition to regular features, there is none other than Jaya Jaitly, expert in traditional arts and crafts, arguing about the use of natural fibres and colours, produced ethically and sustainably.

Fibre2Fashion magazine—the print venture of Fibre2Fashion.com since 2011—is circulated among a carefully-chosen target audience globally, and reaches the desks of top management and decision-makers in the textiles, apparel and fashion industry. As one of India's leading industry magazines for the entire textile value chain, Fibre2Fashion Magazine takes the reader beyond the mundane headlines, and analyses issues in-depth.

Technology has emerged as an important component in businesses and organizations by allowing for modern innovations through the internet and other information and communication technologies. Modern Entrepreneurship and E-Business Innovations provides advanced knowledge of e-entrepreneurship and innovation as well as emerging theories, applications and challenges. This book is an essential reference source for researchers, practitioners, and executives interested in a better understanding of a comprehensive framework for e-business and entrepreneurship.

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