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A woman glances at a broken clock and comes to believe it is a quarter past seven. Yet, despite the broken clock, it really does happen to be a quarter past seven. Her belief is true, but it isn't knowledge. This is a classic illustration of a central problem in epistemology: determining what knowledge requires in addition to true belief. In this provocative book, Richard Foley finds a new solution to the problem in the observation that whenever someone has a true belief but not knowledge, there is some significant aspect of the situation about which she lacks true beliefs--something important that she doesn't quite "get." This may seem a modest point but, as Foley shows, it has the potential to reorient the theory of knowledge. Whether a true belief counts as knowledge depends on the importance of the information one does or doesn't have. This means that questions of knowledge cannot be separated from questions about human concerns and values. It also means that, contrary to what is often thought, there is no privileged way of coming to know. Knowledge is a mutt. Proper pedigree is not required. What matters is that one doesn't lack important nearby information. Challenging some of the central assumptions of contemporary epistemology, this is an original and important account of knowledge.
Advanced research into wool science and technology is leading to a better understanding of the properties of wool. Wool is increasingly being seen as a high performance fibre, with new modifications and applications. Advances in wool technology presents a comprehensive account of these developments and innovations. Part one includes advances that have occurred in the production and processing of wool. Topics range from the progress in wool spinning, weaving and colouration, to environmental supply chain management and to the role of genetic engineering in improved wool production. Part two reviews new wool products and applications. Chapters include the production of brighter and whiter wool, high performance wool blends and wool for apparel. With its two distinguished editors and array of international contributors, this book is a valuable reference for producers, manufacturers, retailers and all those wishing to improve and understand developments in wool technology. It will also be suitable for researchers in industry or academia.
Presents a comprehensive account of recent developments and innovation surrounding the high performance fibre
Examines advances in wool production and processing from wool spinning to genetic engineering in improved production
Considers environmental supply chain management

This contributed volume contains the research results of the Cluster of Excellence “Integrative Production Technology for High-Wage Countries”, funded by the German Research Society (DFG). The approach to the topic is genuinely interdisciplinary, covering insights from fields such as engineering, material sciences, economics and social sciences. The book contains coherent deterministic models for integrative product creation chains as well as harmonized cybernetic models of production systems. The content is structured into five sections: Integrative Production Technology, Individualized Production, Virtual Production Systems, Integrated Technologies, Self-Optimizing Production Systems and Collaboration Productivity.The target audience primarily comprises research experts and practitioners in the field of production engineering, but the book may also be beneficial for graduate students.

Denim: Manufacture, Finishing and Applications provides exhaustive coverage of denim manufacture, jeans washing, novel applications and environmental impacts. It also contains information on the history and social influence of denim, and includes the details relevant to the fashion and apparel industry. The topics covered are comprehensive with contributions from experts the world over, and the book is offered as an authentic reference book for any relevant information on denim. Provides a thorough review of denim manufacturing and jeans washing technologies Includes details relevant to the fashion and apparel industry while maintaining a high level of technological content on spinning, dyeing, weaving, garments, washing, finishing and other applications Includes several contributions from industry experts

This book shows the advantages of using different perspectives and scientific backgrounds for developing support technologies that are integrated into daily life. It highlights the interaction between people and technology as a key factor for achieving this integration and discusses relevant methods, concepts, technologies, and applications suitable for interdisciplinary exchange and collaboration. The relationship between humans and technology has become much more inclusive and interdependent. This generates a number of technical, ethical, social, and practical issues. By gathering contributions from scholars from heterogeneous research fields, such as biomechanics, various branches of engineering, the social sciences, information science, psychology, and philosophy, this book is intended to provide answers to the main questions arising when support technologies such as assistance systems, wearable devices, augmented reality, and/or robot-based systems are constructed, implemented, interfaced and/or evaluated across different application contexts.

The Machinery Compendium an exclusive feature for the global textile machinery industry. The compendium would showcase Textile Machineries that are strategically innovated for future. The Machinery Compendium provides an opening to the worldwide textile machinery manufacturer’s community to showcase their latest technologies and innovations. The compendiums that we at Fibre2Fashion publish from time to time do two things simultaneously–take stock of the situation, and look ahead. This particular compendium, on Industry 4.0, too does both, but more of the latter. The canvas is huge, and like the universe itself, it is forever expanding. The term Industry 4.0 means different things to different people and so the predictions from industry experts as well as academics and researchers differ as well. But what all agree on is that the convergence of information technology (IT) and operational technology (OT) will drive manufacturing. The next phase of industrialisation, being referred to popularly as the Fourth Industrial Revolution, will be different from the earlier ones in that it will also be about life-cycles. In short, it goes beyond manufacturing. The concept itself is still new and evolving at a frenetic pace. This also makes it difficult for those in industry to go the Industry 4.0 way. Formulating strategies and implementing them needs to start with knowledge. That’s where this compendium comes in. This hard-bound volume includes among other things vision statements from industry leaders, some best practices and case studies, and the F2F Ready Reckoner.

The CEO Handbook to cover the innovations and new developments in the textile machinery. This feature shall be a voice through which the

machinery companies can narrate their story of innovations. They can present their innovative machineries and new development to the textile leaders through the medium of this print feature that will be circulated to CEOs and top decision makers of textile companies within India and South East Asia. This feature will not only render visibility to their innovations but also act as a positive catalyst of success. In today's world, textile manufacturers need to keep upgrading their machineries to stay competitive. In fact, it is the latest machinery that drives the growth of the textile and garment industry by providing efficiency and optimisation in production. To meet customers' demands and needs, global leaders in textile machineries strive hard to come up with innovative and more efficient textile machines. The newer machines are intelligently designed to give maximum quality and optimum economic efficiency with outstanding features. The trends in shipments of machineries give an indication of which machineries are in demand. Shipments of flat-knitting machines rose by 52 per cent, while deliveries of shuttle-less looms increased by 14 per cent year-on-year in 2015, according to the 38th annual International Textile Machinery Shipment Statistics (ITMSS) released by the International Textile Manufacturers Federation (ITMF). On the other hand, shipments in some textile machinery segments experienced declines in 2015. Deliveries of new short-staple spindles fell by nearly 8 per cent from 2014 to 2015. Shipped long-staple spindles and open-end rotors decreased by 61 per cent and 6 per cent, respectively. The number of shipped draw texturing spindles fell by 26 per cent and shipments for new circular knitting machines by 6 per cent year-on-year. However, 2015 was a very good year for the segment of electronic flat knitting machines as global shipments grew by 52 per cent to 70,100 machines, the highest level since 2011. Not surprisingly, Asia received the highest share of shipments (93 per cent). China remained the world's largest investor for flat knitting machines in 2015. Thereby, Chinese investments increased from 19,000 units to 35,500 units. But, due to rising labour and production costs, textile and garment manufacturing is shifting, to a certain extent, from China. As a result, new plants are being set up in other countries, especially in Asia and Africa. This is where the new machineries would be in demand. 'Innovations in Machinery — The CEO Handbook' tries to explain the advantages of various machines that will help technocrats in choosing the right machine. This volume is a collection of top most companies that inform readers about the latest innovations in textile machinery. It presents some of the leading machinery entrepreneurs from different textile verticals who have contributed to the textile industry with their innovations. New technologies and techniques in textile production are sure to draw the attention of top textile technocrats. Going beyond, this volume attempts to give a glimpse of the future of textile machinery and production. This handbook will reach the top technocrats in the textile and apparel organisations throughout the world. It will serve as an extensive source of information regarding upcoming technologies and innovations in the global textile machinery industry.

The second edition of Handbook of Technical Textiles, Volume 1: Technical Textile Processes provides readers with a comprehensive understanding of the latest advancements in technical textiles. With revised and updated coverage, including several new chapters, this volume reviews recent developments and technologies in the field, beginning with an overview of the technical textiles industry that includes coverage of technical fibers and yarns, weaving, spinning, knitting, and nonwoven production. Subsequent sections include discussions on finishing, coating, and the coloration of technical textiles. Provides a comprehensive handbook for all aspects of technical textiles Presents updated, detailed coverage of processes, fabric structure, and applications An ideal resource for those interested in high-performance textiles, textile processes, textile processing, and textile applications Contains contributions from many of the original, recognized experts from the first edition who update their respective chapters

Specialist yarn, woven and fabric structures are key elements in the manufacturing process of many different types of textiles with a variety of

applications. This book explores a number of different specialist structures, discussing the developments in technology and manufacturing processes that have taken place in recent years. With its distinguished editor and international team of contributors, Specialist yarn, woven and fabric structures is essential reading for all textile researchers, technicians, engineers and technologies, and will also be suitable for academic purposes. Looks at developments that have occurred in the manufacturing of specialist yarn, weave and fabric structures Discusses different types of specialist yarn structures, such as hybrid, fancy and compound yarns Offers insight into multicomponent fabric structures such as 3D nonwovens, flocked, knotted and jacquard woven fabrics

This book presents the proceedings of the 4th International Manufacturing Engineering Conference and 5th Asia Pacific Conference on Manufacturing Systems (iMEC-APCOMS 2019), held in Putrajaya, Malaysia, on 21–22 August 2019. Covering scientific research in the field of manufacturing engineering, with focuses on industrial engineering, materials, processes, the book appeals to researchers, academics, scientists, students, engineers and practitioners who are interested in the latest developments and applications related to manufacturing engineering.

Automation in Garment Manufacturing provides systematic and comprehensive insights into this multifaceted process. Chapters cover the role of automation in design and product development, including color matching, fabric inspection, 3D body scanning, computer-aided design and prototyping. Part Two covers automation in garment production, from handling, spreading and cutting, through to finishing and pressing techniques. Final chapters discuss advanced tools for assessing productivity in manufacturing, logistics and supply-chain management. This book is a key resource for all those engaged in textile and apparel development and production, and is also ideal for academics engaged in research on textile science and technology. Delivers theoretical and practical guidance on automated processes that benefit anyone developing or manufacturing textile products Offers a range of perspectives on manufacturing from an international team of authors Provides systematic and comprehensive coverage of the topic, from fabric construction, through product development, to current and potential applications

Woven Textiles: Principles, Technologies and Applications, Second Edition, is an essential guide to woven textiles. This new edition is updated and expanded to include major new application areas, as well as the latest developments and innovations in terms of fibers, yarns, fabrics, machinery and technology. Sections cover fibers and yarns used for weaving, key preparatory techniques, the fundamentals of weaving technology, the characteristics of woven structures, the use of computer assisted design (CAD) systems, techniques for modelling the structure of woven fabrics, methods for the manufacture of 3D woven structures, and the application of woven textiles in a range of technologies. With its distinguished editor and international team of expert contributors, this second edition will be an indispensable guide for all designers, engineers and technicians involved in the design, manufacture and use of woven textiles, as well as for academics and researchers in the field of textiles. Provides extensive coverage of woven textiles, including their preparation, manufacture, woven structures and characteristics Presents the latest technical applications of woven textiles, such as transportation, geotextiles, medical applications, sports and leisure, filtration, and composite structures Enables the reader to understand the latest technological advances in the area of woven textiles

Die vorliegende Arbeit zeigt Wege und Möglichkeiten zur Gestaltung der Textilproduktion im Rahmen des Zukunftsprojekts

Industrie 4.0. Dazu werden relevante Forschungsthemen in der Textilbranche identifiziert und exemplarisch für drei Felder Lösungen konzeptioniert, entwickelt und implementiert. Im Anschluss erfolgt eine Bewertung der Lösungen, in der unter anderem die Wirtschaftlichkeit betrachtet wird. Fragestellungen zum Transfer des Wissens in die Unternehmen runden die Arbeit ab.
This book discusses the design of textile production within the framework Industry 4.0. Relevant research topics in the textile industry are identified and solutions are conceptualized, developed and implemented. This is followed by an evaluation of the solutions in which, among other things, the profitability is considered. Questions about the transfer of knowledge into the company complete the work. Industry 4.0 in Textile Production provides a rich investigation into and survey of textile production The informative cases studies, clear perspective, and detailed analysis make this book of great use to engineers, researchers and postgraduate students interested in the textile industry.

A mixture of science and art, weaving is nearly as old as human history. Despite the many technological advances in the field, however, it is still virtually impossible to control each individual fiber in a woven structure. To help you meet this and other weaving challenges, Handbook of Weaving covers every step of the process clearly and systemati

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.