Smart or intelligent textiles are a relatively novel area of research within the textile industry with enormous potential within the healthcare industry. This book provides a unique insight into recent developments in how smart textiles are being used in the medical field. The first part of the book assesses trends in smart medical textiles. Chapters cover topics such as wound care materials, drug-based release systems and electronic sensors for health care. The second part of the book discusses the role of smart textile in monitoring the health of particular groups such as pregnant women, children, the elderly and those with particular physical disabilities. With its distinguished editor and team of international contributors, this book provides a unique and essential reference to those concerned with intelligent textiles in healthcare. Unlocks the significant potential of smart textiles within the healthcare industry. Provides a unique insight into recent developments in this exciting field.

Will the present high work pace and the strong time pressure continue to exist in the coming 20 years? In the years 2010 will there be even more employees working under their level of education and suffering from health problems due to stress at work than is the case at the moment? Will the physical work-load of employees be reduced to a minimum over the next 20 years as a result of further application of ergonomic principles? Will the health risks due to working with chemicals increase or decrease? And will sickness, absenteeism and work disability have increased, as a result of these kinds of developments, around the year 2010 or will they have been mostly brought under control? These and similar questions are dealt with in this book about the quality of the work, health and well-being of employees in the year 2010, carried out by the NTO Institute of Preventive Health Care (NIPG/TNO) in Leiden, assisted by the Scenario Committee. Using trend analysis the researchers demonstrate that many aspects of working life have improved in the Netherlands since 1980. Needless to say, not the past but the exploration of the future of the quality of working life takes a central place in this book. Finally the top 20 measures, suggested by a panel of 88 Dutch experts, are presented. These aim at halving the rate of sickness absenteeism and work disability in the Netherlands.

This book addresses current research trends and practice in industrial design. Going beyond the traditional design focus, it explores a range of recent and emerging aspects concerning service design, human-computer interaction and user experience design, sustainable design, virtual & augmented reality, as well as inclusive/universal design, and design for all. A further focus is on apparel and fashion design: here, innovations, developments and challenges in the textile industry, including applications of material engineering, are taken into consideration. Papers on pleasurable and affective design, including studies on emotional user experience, emotional interaction design and topics related to social networks make up a major portion of the contributions included in the book, which is based on five AHFE 2020 international conferences (the AHFE 2020 Virtual Conference on Design for Inclusion, the AHFE 2020 Virtual Conference on Interdisciplinary Practice in Industrial Design, the AHFE 2020 Virtual Conference on Affective and Pleasurable Design, the AHFE 2020 Virtual Conference on Kansei Engineering, and the AHFE 2020 Virtual Conference on Human Factors for Apparel and Textile Engineering) held on July 16-20, 2020. Thanks to its multidisciplinary approach, it provides graduate students, researchers and professionals in engineering, architecture, computer and materials science with extensive information on research trends, innovative methods and best practices, and a unique bridge fostering collaborations between experts from different disciplines and sectors.

D_Tex is proposed as a hub around which it is possible to look at textiles in their different forms, in order to better understand, study, adapt and project them for the future. It is intended to build a flow of ideas and concepts so that participants can arrive at new ideas and concepts and work them in their own way, adapting them to their objectives and research. D_Tex is intended as a space for sharing and building knowledge around textile material in order to propose new understandings and explorations. Present in all areas of knowledge, the textile material bets on renewed social readings and its evolutions to constantly reinvent itself and enable innovative cultural and aesthetic dimensions and unexpected applications to solve questions and promote new knowledge. D_Tex proposes to promote discussion and knowledge in the different areas where textiles, with all their characteristics, can ensure an important contribution, combining material and immaterial knowledge, innovative and traditional techniques, technological and innovative materials and methods, but also new organization and service models, different concepts and views on teaching. With the renewed idea of the intrinsic interdisciplinarity of design and sharing with different areas that support each other, the research and practice of textiles was proposed by the D_TEX Textile Design Conference 2019, held June 19-21, 2019 at the Lisbon School of Architecture of the University of Lisbon, Portugal under the theme "In Touch" where, as broadly understood as possible, different areas of textiles were regarded as needing to keep in touch with each other and end users in order to promote and share the best they can offer for the welfare of their users and consumers. Completely new textile technologies have recently been developed with the goal of giving additional functionality to garments. Textiles have been improved to protect against UV radiation and...
Clothing And Textiles For Disabled And Elderly People

Toxic gases or to enhance breathability. In addition, they may have integrated sensors to diagnose medical conditions or may be equipped with carrier molecules to absorb substances from the skin and release therapeutic compounds. At the same time, the awareness of unwanted effects clothing may have on human health has increased. This volume familiarizes the dermatologist, allergologist and occupational physician with what he should know about textiles, and, on the other hand, the textile or chemical engineer with what he should know about the human skin. Further, it is divided into two parts: the first of which discusses the functionality of textiles also in medicine, for instance in the prevention of skin infections or wound healing. The last part deals with allergic contact and irritant dermatitis and the risks of possible exposure to hazardous chemical residues in textiles. For the first time the knowledge of textile engineers and dermatologists has been brought together to stimulate a promising interchange.

This volume contains select papers presented during the Function- al Textiles and Clothing Conference 2020 held at Indian Institute of Technology Delhi. The volume covers recent developments, challenges and opportunities in the field of functional and protective clothing: functional printing and finishing; sustainable production and supply chain; and testing and characterisation. This volume will be of interest to researchers, professional engineers, entrepreneurs, and market stakeholders interested in functional textiles and clothing.

This two-volume set LNCS 11581 and 11582 constitutes the thoroughly refereed proceedings of the 10th International Conference on Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management, DHM 2019, which was held as part of the 21st HCI International Conference, HCI 2019, in Orlando, FL, USA, in July 2019. The total of 1275 papers and 209 posters included in the 35 HCI 2019 proceedings volumes were carefully reviewed and selected from 5029 submissions. DHM 2019 includes a total of 77 papers; they were organized in topical sections named: Part I, Human Body and Motion; Anthropometry and computer aided ergonomics; motion prediction and motion capture; work modelling and industrial applications; risk assessment and safety. Part II, Healthcare Applications: Models in healthcare; quality of life technologies; health dialogues; health games and social communities.

"Designing Inclusive Futures" reflects the need to explore, in a coherent way, the issues and practicalities that lie behind design that is intended to extend our active future lives. This encompasses design for inclusion in daily life at home but also extends to the workplace and for products within these contexts. For example, given trends in employment sector growth, skills requirements, labour supply and demographic change, there is a need to predict the critical areas where individual capabilities are mismatched with the physical, social and organisational demands of work. This mismatch, which can be addressed within the domain of inclusive design, is pervasively linked to real artefacts in workspaces and their intersection with the health factors that relate to ageing. This book is the result of the fourth CWUAAT workshop held in Cambridge, England in April 2008.

This book provides a comprehensive analysis of the development and consequences of disability policies, contrasting policies grounded in medical definitions of disability with a 'social model' of disability supported by disability rights campaigners in their pursuit of anti-discrimination legislation. British policies are set in comparative context, and the impacts of policy on disabled people according to their class, gender, age and ethnicity are explored.

This publication is concerned with gerontechnology - the study of technology and ageing with the aim of improving the functioning of older people in daily life. The first part of the book is a compilation of the key-note addresses describing the background for and the conditions under which the emerging field of gerontechnology can be developed further. The chapters deal with political, socio-economic, ethical, demographic issues related to gerontechnology. Furthermore, methodological approaches in human factors, ergonomics and industrial design are described. Trends in technological developments and innovations conclude the first volume. The second part presents some 80 case studies, divided over 9 sections (1) perception and cognition, (2) communication technology, (3) mobility and transport, (4) health and home care technology, (5) housing, (6) training and education, (7) safety and security, (8) product design and (9) culture and attitudes. This book addresses a range of topics in design, such as universal design; design for all; digital inclusion; universal usability; and accessibility of technologies regardless of users’ age, financial situation, education, geographic location, culture and language. It especially focuses on accessibility for people with auditory, cognitive, neurological, and visual impairments, ageing populations, and mobility for those with special physical needs. The book explores some of the overlaps between inclusive design and web accessibility to help managers, designers, developers, policy makers, and researchers optimize their efforts in these areas. Based on the AHFE 2019 International Conference on Design for Inclusion, held on July 24-28, held in Washington D.C., USA, it discusses new design technologies and highlights the disparate needs of the individuals within a community. Thanks to its multidisciplinary approach, it provides readers with various backgrounds with a timely, practice-oriented guide to design for inclusion.

The third edition of Major Business Organisations of Eastern Europe and the Commonwealth of Independent Guide to the States provides comprehensive data on over 3,000 organisations including Manufacturers, Foreign Trading arrangement of this Organisation, Banks, Ministries, Chambers of Commerce and Services. Book Due to the change in the import/export laws in Eastern Europe it is now possible to trade directly with many This book has been arranged in order to allow the reader organisations, and with over 7,000 named contacts and to find any entry rapidly and accurately, comprehensive details on each organisation, this directory enables the western business community to Company entries are listed alphabetically within each reach this new market. country section; in addition three indexes are provided on coloured paper at the back of the book. The information in this directory is the result of a careful research and extensive translation operation ensuring The alphabetical index of organisations throughout the entries are as accurate and up-to-date as possible. Eastern Europe and the C.I.S. lists all entries in The Editors would like to express thanks to the huge alphabetical order irrespective of their main country of number of organisations who provided information about operation. themselves for inclusion in this book. The alphabetical index of organisations within each whilst the editors have taken every care to ensure the country of Eastern Europe and the C.I.S. lists information in this book is up-to-date, due to the fast organisations by their country of operation.

The use of intelligent textiles in clothing is an exciting new field with wide-ranging applications. Intelligent textiles and clothing summarises some of the main types of intelligent textiles and their uses. Part one of the book reviews phase change materials (PCM), their role in such areas as thermal regulation and ways
they can be integrated into outdoor and other types of clothing. The second part of the book discusses shape memory materials (S-MM) and their applications in medical textiles, clothing and composite materials. Part three deals with chromic (colour change) and conductive materials and their use in such areas as sensors within clothing. The final part of the book looks at current and potential applications, including work wear and medical applications. With its distinguished editor and international team of contributors, Intelligent textiles and clothing is an essential guide for textile manufacturers in such areas as specialist clothing (for example, protective, sports and outdoor clothing) as well as medical textiles. Summarises the main types of intelligent textiles and their uses Reviews phase change materials and their role in clothing Discusses shape memory materials and their applications Disability and Shopping: Customers, Markets and the State provides an examination of the diverse experiences and perspectives of disabled customers, industry and civil society. It discusses how the interaction between the three stakeholders should be shaped at aiming to decrease inequality and marginalisation. Shopping is a part of everyday modern life and yet businesses struggle to adequately meet the needs of 80 million disabled customers in the European Union single market. While there has been extensive research into how individuals engage in customer roles and experience, and how businesses and policies both shape and respond to these, little is known of the same dynamics and practices regarding people with impairments. This book addresses this need by revealing the perspectives, interactions and experiences of disabled customers and their interaction with policy and business. It will be required reading for all scholars and students of disability studies, sociology, marketing and customer relations.

No description

This book explores the alternative experiences of children and young people whose everyday lives contradict ideas and ideals of normalcy from the local to the global context. Presenting empirical research and conceptual interventions from a variety of international contexts, this book seeks to contribute to understandings of alterity, agency and everyday precarity. The young lives foregrounded in this volume include the experiences of transnational families, children in ethnic minority communities, street-living young people, disabled children, child soldiers, victims of abuse, politically active young people, working children and those engaging with alternative education. By exploring 'other' ways of being, doing, and thinking about childhood, this book addresses questions around what it is to be a child and what it is to be marginalised in society. The narratives explore the everydayness and the mundanity of difference as they are experienced through social structures and relationships, simultaneously recognizing and critiquing notions of agency and power. This book, including a discussion resource for teaching or peer reading groups, will appeal to academics, students and researchers across subject disciplines including Human Geography, Children's Geography, Social Care and Childhood Studies.

Despite the world’s ageing population, suitable clothing for the older community is a largely neglected area. This book considers the needs of the growing number of active older people and investigates how recent developments in textiles, fibres, finishes, design and integrated technology can be deployed to serve this group and improve quality of life. Part I provides an understanding of the active aging population by considering the group’s experiences of age and attitudes towards clothing and reviewing the barriers to their adoption of new wearable technologies. Part II focuses on the needs of the older population, including effective communication with designers and the age-related anatomical and physiological changes that designers should consider. Part III reviews design requirements and processes, and finally Part IV reviews the manufacture of suitable apparel, with chapters on suitable textile fibres, balancing technology and aesthetics and wearable electronics. Summarises the weight of recent research on attitudes to clothing amongst the active ageing population Includes how their aspirations can be investigated and appropriate design developed to meet their needs Examines design and manufacturing issues, including ways of accommodating physiological changes with age and the use of wearable electronics

The field of assistive technology is influenced by the ongoing and rapid development of mainstream technologies on the one hand and continuing changes to social systems in relation to societal events - such as the ageing of the population - on the other. The articles in this book provide a broad overview of developments in technical support for people with functional restrictions: key technologies like telecommunications and IT are addressed, while low-tech practical solutions are also considered.

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 Textiles, Kinematic Model, Scanning Procedure, 2D-3D/ 3D-2D Virtual Prototype, Body Posture Simulation, Virtual Pattern Making, Garment Fit Simulation.

Although the main theme of this book is products for the elderly and the disabled, it also contains major sections on medical garments, which include personal protective equipment (PPE), hip protectors (HP), pressure garments (PG), compression stockings (CS), wet dressing, products for wound dressing, adult incontinence products, sanitary napkins, disposable diapers, vital signs monitoring garments, motion aware clothing, wearable sensors and smart diapers and so on. The development of apparel for the elderly and the disabled is a challenge for the healthcare and clothing industries. The developed apparel products are not only based on various design, fashion and comfort concepts but also considered in terms of particular medical problems, restorative care functions, and appropriate solutions for healthcare purposes. The Congressional Record is the official record of the proceedings and debates of the United States Congress. It is published daily when Congress is in session. The Congressional Record began publication in 1873. Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States (1789-1824), the Register of Debates in Congress (1824-1837), and the Congressional Globe (1833-1873).

From the disability rights advocate and creator of the #DisabledAndCute viral campaign, a thoughtful, inspiring, and charming collection of essays exploring what it means to be black and disabled in a mostly able-bodied white America. Keah Brown loves herself, but that hadn’t always been the case. Born with cerebral palsy, her greatest desire used to be normalcy and refuge from the steady stream of self-hate society strengthened inside her. But after years of introspection and reaching out to others in her community, she has reclaimed herself and changed her perspective. In The Pretty One, Brown gives a contemporary and relatable
voice to the disabled—so often portrayed as mute, weak, or isolat-
ed. With clear, fresh, and light-hearted prose, these essays ex-
ploration everything from her relationship with her able-bodied identi-
cal twin (called “the pretty one” by friends) to navigating ro-
mance; her deep affinity for all things pop culture—and her disap-
pointment with the media’s distorted view of disability; and her
self-love with the viral hashtag #DisabledAndCute.
By “smashing stigmas, empowering her community, and celebrat-
ing herself” (Teen Vogue), Brown and The Pretty One aims to ex-
pand the conversation about disability and inspire self-love for
people of all backgrounds.
This volume presents selected papers presented during the 18th
International Conference on Humanizing Work and Work Environ-
ment (HWWE 2020). The book presents research findings on differ-
ent areas of ergonomics for developing appropriate tools and
work environment considering capabilities and limitations of working
people for maximum effectiveness on their performance. The book is divided into several sections focusing on different ergo-
monic research activities currently being undertaken at both na-
tional and international levels. The volume will be of use to researchers, practitioners and students working in different fields of ergo-

A sweeping and captivatingly told history of clothing and the stuff
it is made of—an unparalleled deep-dive into how everyday gar-
ments have transformed our lives, our societies, and our planet.
“We learn that, if we were a bit more curious about our clothes,
they would offer us rich, interesting and often surprising insights
into human history...a deep and sustained inquiry into the origins
of what we wear, and what we have worn for the past 500 years.”
—The Washington Post In this panoramic social history, Sofi Than-
hauser brilliantly tells five stories—Linen, Cotton, Silk, Synthetics,
Wool—about the clothes we wear and where they come from, illu-
minating our world in unexpected ways. She takes us from the op-
ulent court of Louis XIV to the labor camps in modern-day Chine-
se-occupied Xinjiang. We see how textiles were once dyed with lichen, shells, bark, saffron, and beetles, displaying distinctive re-
gional weaves and knits, and how the modern Western garment
industry has refashioned our attire into the homogenous and dis-
posable uniforms popularized by fast-fashion brands. Thanhauser
makes clear how the clothing industry has become one of the
planet’s worst polluters and how it relies on chronically underpaid
and exploited laborers. But she also shows us how micro-commu-
nities, textile companies, and clothing makers in every corner of
the world are rediscovering ancestral and ethical methods for
making what we wear. Drawn from years of intensive research
and reporting from around the world, and brimming with fascinat-
ing stories, Worn reveals to us that our clothing comes not just
from the countries listed on the tags or ready-made from our fac-
tories. It comes, as well, from deep in our histories.
This thoroughly revised and updated edition of Fashion Theory: A Reader brings together and presents a wide range of essays on
fashion theory that will engage and inform both the general read-
er and the specialist student of fashion. From apparently simple
and accessible theories concerning what fashion is to seemingly
more difficult or challenging theories concerning globalisation and
new media, this collection contextualises different theoretical ap-
proaches to identify, analyse and explain the remarkable diversi-
ty, complexity and beauty of what we understand and experience
every day as fashion and clothing. This second edition contains en-
tirely new sections on fashion and sustainability, fashion and glob-
alisation, fashion and digital/social media and fashion and the
body/prosthesis. It also contains updated and revised sections on
fashion, identity and difference, and on fashion and consumption
and fashion as communication. More specifically, the section on
identity and difference has been updated to include contemporary
theoretical debates surrounding Islam and fashion, and LGBT+
communities and fashion and the section on consumption now in-
cludes theories of ‘prosumption’. Each section has a specialist and
dedicated Editor’s Introduction which provides essential conceptu-
al background, theoretical contextualisation and critical sum-
maries of the readings in each section. Bringing together the
most influential and ground breaking writers on fashion and expos-
ing the ideas and theories behind what they say, this unique col-
clection of extracts and essays brings to light the presuppositions
involved in the things we all think and say about fashion. This sec-
dond edition of Fashion Theory: A Reader is a timeless and inval-
urable resource for both the general reader and undergraduate stu-
dents across a range of disciplines including sociology, cultural
studies and fashion studies.