Smart Textiles For Designers Inventing The Future Of Fabrics

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The first book on active matter, an emerging field focused on programming physical materials to assemble themselves, transform autonomously, and react to information. The past few decades brought a revolution in computer software and hardware; today we are on the cusp of a materials revolution. If yesterday we programmed computers and other machines, today we program matter itself. This has created new capabilities in design, computing, and fabrication, which allow us to program proteins and bacteria, to generate self-transforming wood products and architectural details, and to create clothing from “intelligent textiles” that grow themselves. This book offers essays and sample projects from the front lines of the emerging field of active matter. Active matter and programmable materials are at the intersection of science, art, design, and engineering, with applications in fields from biology and computer science to architecture and fashion. These essays contextualize current work and explore recent research. Sample projects, generously illustrated in color, show the range of possibilities envisioned by their makers. Contributors explore the design of active material at scales from nano to micro, kilo, and even planetary. They investigate processes of self-assembly at a microscopic level; test new materials that can sense and actuate themselves; and examine the potential of active matter in the built environment and in living and artificial systems. Active Matter is an essential guide to a field that could shape the future of design.

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This book represents a major milestone in the endeavour to understand how communication is impacting on the fashion industry and on societal fashion-related practices and values in the digital age. It presents the proceedings of FACTUM 19, the first in a series of fashion communication conferences that highlights important theoretical and empirical work in the field. Beyond documenting the latest scientific insights, the book is intended to foster the sharing of methodological approaches, expand the dialogue between communications’ studies and fashion-related disciplines, help establish an international and interdisciplinary network of scholars, and offer encouragement and fresh ideas to junior researchers. It is of high value to academics and students in the fields of fashion communication, fashion marketing, visual studies in fashion, digital transformation of the fashion industry, and the cultural heritage dimension of fashion. In addition, it is a key resource for professionals seeking sound research on fashion communication and marketing.

Smart Textiles for DesignersInventing the Future of FabricsLaurence King Publishing

A richly illustrated, comprehensive study of fashion under socialism, from state-sponsored prototypes to unofficial imitations of Paris fashion. The idea of fashion under socialism conjures up images of babushka headscarves and black market blue jeans. And yet, as Djurdja Bartlett shows in this groundbreaking book, the socialist East had an intimate relationship with fashion. Official antagonism—which cast fashion as frivolous and anti-revolutionary—eventually gave way to grudging acceptance and creeping consumerism. Bartlett outlines three phases in socialist fashion, and illustrates them with abundant images from magazines of the period: postrevolutionary utopian dress, official state-sanctioned socialist fashion, and samizdat-style everyday fashion. Utopian dress, ranging from the geometric abstraction of the constructivists under Bolshevism in the Soviet Union to the no-frills desexualized uniform of a factory worker in Czechoslovakia, reflected the revolutionary urge for a clean break with the past. The highly centralized socialist fashion system, part of Stalinist industrialization, offered official prototypes of high fashion that were never available in stores—mythical images of smart and luxurious dresses that symbolized the economic progress that socialist regimes dreamed of. Everyday fashion, starting in the 1950s, was an unofficial, do-it-yourself enterprise: Western fashions obtained through semiclandestine channels or sewn at home. The state tolerated the demand for Western fashion, promising the burgeoning middle class consumer goods in exchange for political loyalty. Bartlett traces the progress of socialist fashion in the Soviet Union, Czechoslovakia, Hungary, East Germany, Poland, and Yugoslavia, drawing on state-sponsored socialist women's magazines, etiquette books, socialist manuals on dress, private archives, and her own interviews with designers, fashion editors, and other key figures. Fashion, she suggests, with all its ephemerality and dynamism, was in perpetual conflict with the socialist regimes' fear of change and need for control. It was, to echo the famous first sentence from the Communist Manifesto, the spectre that haunted socialism until the end.

The luxury fashion industry is one of the best performing and fastest growing industries in today’s business landscape, and is set to continue expanding over the next years. Exploring the effects of digitalization, this book aims to increase our understanding of the key drivers of internal growth and competitiveness in luxury fashion firms. With a focus on the development of new brand strategies brought about by digitalization, the author outlines the need for business models to be redesigned in order to make use of social media and satisfy Millennial consumers. Offering case studies on leading luxury fashion brands, this timely book evaluates new digital technologies and strategies including omnichannel marketing, 3D printing and smart textiles. A must-read for those researching digital marketing and branding, as well as luxury or fashion management, this book provides a much-needed and up-to-date analysis of a successful and digitally aware industry.

It is not from the benevolence of the butcher, the brewer, or the baker that we can expect our dinner, but from their regard to their own interest. When Adam Smith wrote that all our actions stem from self-interest and that the world turns because of financial gain, he brought to life 'economic man'.

Sensors were developed to detect and quantify structures and functions of human body as well as to gather information from the environment in order to optimize the efficiency, cost-effectiveness and quality of healthcare services as well as to improve health and quality of life. This book offers an up-to-date overview of the concepts, modeling, technical and technological details and practical applications of different types of sensors. It also discusses the trends for the next generation of sensors and systems for healthcare settings. It is aimed at researchers and graduate students in the field of healthcare technologies, as well as academics and industry professionals involved in developing sensing systems for human body structures and functions, and for monitoring activities and health.

This book offers an extensive, interdisciplinary overview of dynamic textiles. Specifically, it discusses new findings and design concepts concerning the integration of smart materials into textile substrates and their corresponding dynamic behavior. Introducing the topic of dynamic color in textiles, it presents experimental procedures to achieve color change and dynamic light

transmittance in thermochromic textiles, and examines their thermoresponsive behavior and respective electrical activation. Moreover, it also addresses the topic of dynamic form and reports on the authors' original findings using shape-memory alloys and geometric morphologies based on origami techniques. Covering innovative smart textiles and important considerations in terms of design variables when developing textiles with dynamic qualities, and providing extensive, practice-oriented insights into the interaction of textiles with light, it is primarily intended for academics, researchers and practitioners developing smart, dynamic and interactive textiles. The sections describing in detail the experimental work aimed at the integration of smart materials in textile substrates also appeal to professionals in the textile industry.

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This book presents a global view of the development and applications of technical textiles with the description of materials, structures, properties, characterizations, functions and relevant production technologies, case studies, challenges, and opportunities. Technical textile is a transformative research area, dealing with the creation and studies of new generations of textiles that hoist many new scientific and technological challenges that have never been encountered before. The book emphasizes more on the principles of textile science and technology to provide solutions to several engineering problems. All chapter topics are exclusive and selectively chosen and designed, and they are extensively explored by different authors having specific knowledge in each area.

L'intérêt industriel pour les textiles intelligents et plus largement les vêtements intelligents est croissant. Cet ouvrage met l'accent sur les aspects concrets de ce domaine et s'adresse aux lecteurs qui souhaitent se familiariser avec la complexité des questions entourant les textiles intelligents et les applications de vêtements intelligents, ainsi qu'aux concepteurs de produits. La première partie expose de manière concrète et détaillée les termes, marchés, tendances, normalisation, réglementation, données à caractère personnel, contraintes de sécurité. La deuxième partie présente de nombreuses spécificités techniques et physiques (optique, électrique, électronique) et des exemples de wearables classiques, de fibres, de textiles et de tissus intelligents utilisés pour l'habillement professionnel, sportif, bien-être, mode, sécurité (EPI) et médical. La dernière partie développe les technologies, les composants et les aspects de connectivité qui sont et seront utilisés dans ce segment de marché et présente en détail les aspects économiques et de coûts des wearables et des vêtements intelligents.

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development and design of textile products, different types of fibers, yarns and fabrics, the structure, characteristics and design of textiles, and the development of products for specific applications, including both traditional and technical textiles. This book is an innovative and highly valuable source of information for anyone engaged in textile product design and development, including engineers, textile technologists, manufacturers, product developers, and researchers and students in textile engineering. Presents an integrated approach to textile product design and development Guides the reader from initial principles and concepts, to cutting-edge applications Includes cutting-edge design concepts and major new technologies

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This book presents the outcomes of recent endeavors that will contribute to significant advances in the areas of communication design, fashion design, interior design and product design, music and musicology, as well as overlapping areas. Gathering the proceedings of the 7th EIMAD conference, held on May 14–15, 2020, and organized by the School of Applied Arts, Campus da Talagueira, in Castelo Branco, Portugal, it proposes new theoretical perspectives and practical research directions in design and music, while also discussing teaching practices and some areas of intersection. It addresses strategies for communication and culture in a global, digital world, that take into account key individual and societal needs.

We are on the cusp of a revolution, where the intersection of technology, the human body, and everyday objects will become completely seamless. Smart textiles are a key part of this revolution. Smart Textiles for Designers introduces the different qualities and properties that can be embedded in, integrated with, and applied to fabrics, and looks at the different contexts in which these smart textiles can be used. A survey of specific fabrics grouped by properties provides a core reference section and a palette for the designer to work from. The book also examines five different design approaches and features interviews with leading designer and design teams, showing their processes and working methods. The first book to look at smart textiles through the eyes of a designer, this is both a core reference work and an inspirational guide for students and professionals alike.

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?Pelican Books 1967????

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During the past 100 years, a large number of new materials have been developed, which provide us with various tools, wares, clothes, etc. with good properties but low weight and low cost. Recently, smart soft materials that can respond to an external stimulus (such as an electric field, magnetic field, sound, light, temperature, pH, and so on) as well as functional soft materials that are electronically, magnetically, or thermally conductive have attracted considerable attention. They have application potentials in various fields. To some extent, they are the way to fulfill most of the "black technology" described in the world of science fiction. This book introduces several smart soft materials and functional soft materials, which are of interest to scholars in related fields.

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?Universe books,New York,1974????

This book examines the nature of service design and service thinking in healthcare and hospital management. By adopting both a service-based provider perspective and a consumer-oriented perspective, the book highlights various healthcare services, methods and tools that are desirable for customers and effective for healthcare providers. In addition, readers will learn about new research directions, as well as strategies and innovations to develop service solutions that are affordable, sustainable, and consumer-oriented. Lastly, the book discusses policy options to improve the service delivery process and customer satisfaction in the healthcare and hospital sector. The contributors cover various aspects and fields of application of service design and service thinking, including service design processes, tools and methods; service blueprints and service delivery; creation and implementation of services; interaction design and user experience; design of service touchpoints and service interfaces; service excellence and service innovation. The book will appeal to all scholars and practitioners in the hospital and healthcare sector who are interested in organizational development, service business model innovation, customer involvement and perceptions, and service experience.

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