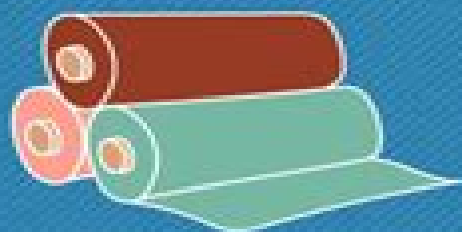


# THE ENVIRONMENTAL IMPACT OF TEXTILES

**79**  
**billion**  
**cubic metres**  
**of water**



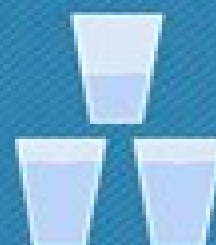
was used by the textile  
and clothing industry  
in 2015

**2,700**  
**litres of water**



is needed to produce  
**one t-shirt**

=



enough **drinking water**  
for one person **for 2.5 years**

# Environmental Impact Of Textiles

**RJ Alexander**



## **Environmental Impact Of Textiles:**

**Environmental Impact of Textiles** K Slater, 2003-06-09 Environmental impact of textiles examines what effects all phases of textile production and use have on the environment from growing or making fibres to discarding a product after its useful life has ended It looks at the physical environment affected by these processes including resource depletion pollution and energy use the biological environment by considering what happens as a result of manufacture and the social environment as it impinges on our psychological physical and physiological comfort as well as our financial well being It pulls together a wide range of examples drawn from a diverse collection of sources and integrates them to form a new and coherent set of ideas This comprehensive approach has not been undertaken before and has never previously been associated with textile production and use In addition to its analysis of the environmental impact of textile manufacturing activity the book also considers the degradation suffered by textile materials within the environment whether by air pollution wind water and other agents Environmental impact of textiles provides a complete survey of how developments in the textile industry and consumers of its products have affected the environment in the past The book also covers recent solutions adopted by the industry in the hope that some alleviation of the problems can be achieved without sacrificing high textile production targets and the ways in which the industry is responding to the environmental challenge It will be an essential reference for anyone involved and concerned with its future environmental footprint Examines the effects textile production and use have on the environment from growing or making fibres to discarding a product after its useful life has ended Looks at how the physical environment is affected by textile production processes including resource depletion pollution energy use and the biological environment Considers the degradation suffered by textile materials within the environment by air pollution wind water and other agents *Assessing the Environmental Impact of Textiles and the Clothing Supply Chain*

Subramanian Senthilkannan Muthu, 2020-03-20 *Assessing the Environmental Impact of Textiles and the Clothing Supply Chain* Second Edition is a fully updated practical guide on how to identify and respond to environmental challenges across the supply chain This new edition features updates to important data on environmental impacts and their measurements the sustainable use of water and electricity and new legislation standards and schemes Chapters provide an introduction to the textile supply chain and an overview of the methods used to measure environmental impacts including greenhouse gas emissions water and energy footprints and a lifecycle assessment LCA on environmental impacts This book will be a standard reference for R D managers in the textile industry and academic researchers in textile science Provides a holistic view of the sustainability issues that affect the textile value chain Explains ways to calculate the textile industry's use of resources its impact on global warming and the pollution and waste it generates Reviews key methods for the reduction of the environmental impact of textile products and how they are implemented in practice Includes methods for calculating product carbon footprints PCFs ecological footprints EFs and lifecycle assessments LCA *Assessing the Environmental Impact of*

*Textiles and the Clothing Supply Chain* Elsevier Science, 2014 The textile industry impacts the environment in a number of ways including its use of resources its impact on global warming and the amount of pollution and waste it generates Assessing the Environmental Impact of Textiles and the Clothing Supply Chain reviews methods used to calculate this environmental impact including product carbon footprints PCFs ecological footprints EFs and life cycle assessment LCA The first chapters provide an introduction to the textile supply chain and its environmental impact and an overview of the methods used to measure this impact The book goes on to consider different environmental impacts of the industry including greenhouse gas emissions the water and energy footprints of the industry and depletion of resources as well as the use of LCA to assess the overall environmental impact of the textile industry It then deals with the practice of measuring these impacts before forming a conclusion about the environmental impact of the industry Assessing the Environmental Impact of Textiles and the Clothing Supply Chain provides a standard reference for R D managers in the textile industry and academic researchers in textile science Reviews the main methods used to calculate the textile industry s use of resources its impact on global warming and the pollution and waste it generates Reviews the key methods their principles and how they can be applied in practice to measure and reduce the environmental impact of textile products Includes the following calculation methods product carbon footprints PCFs ecological footprints EFs and life cycle assessment LCA Sustainability in the Textile Industry Subramanian Senthilkannan Muthu, 2016-10-14 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

Sustainable Textiles Richard Blackburn, 2009-10-19 Environmental issues are playing an increasingly important role in the textile industry both from the point of view of government regulation and consumer expectations Sustainable textiles reviews ways of achieving more sustainable materials and technologies as well as improving recycling in the industry The first part of the book discusses ways of improving sustainability at various points in the supply chain Chapters discuss how sustainability can be integrated into textile design ensuring more sustainable production of both natural and synthetic fibres improving sustainability in processes such as dyeing as well as more environmentally friendly technologies including enzyme and plasma technologies The second part of the book reviews consumer perceptions of recycled textiles eco labelling organic textiles and the use of recycled materials in textile products With a distinguished editor and an impressive range of international contributors Sustainable textiles is an important reference for the textile industry and those researching this important topic Reviews government regulations and consumer expectations about environmental impact on the textiles industry Discusses ways of achieving more sustainable materials and technologies as well as textiles recycling Examines how sustainability can be integrated into textile design production and processes Sustainability in the Textile and Apparel Industries Subramanian Senthilkannan Muthu, Miguel Angel Gardetti, 2020-03-31 This book is part of a five volume set that

explores sustainability in textile industry practices globally Case studies are provided that cover the theoretical and practical implications of sustainable textile issues including environmental footprints of textile manufacturing consumer behavior eco design in clothing and apparels supply chain sustainability the chemistry of textile manufacturing waste management and textile economics The set will be of interest to researchers engineers industrialists R D managers and students working in textile chemistry economics materials science and sustainable consumption and production This volume addresses the technologies and mechanical processes of textile production and what sustainable methods can be employed to achieve improved safety and environmental health The book covers sustainable aspects of printing dyeing coloration weaving knitting tailoring surface design and antimicrobial finishing for environmentally friendly textile and apparel products *Progress on Life Cycle Assessment in Textiles and Clothing* Subramanian Senthilkannan Muthu,2023-03-01 Textiles and Clothing are key sectors and apparel is one of the necessities of human life Environmental brunt of the textile sector and cradle to grave life cycle impacts of textiles and clothing products are a subject of constant investigation There have been a lot of advancements in the textile sector in terms of materials such as textile fibres yarns fabrics garments and also in terms of processes All these innovations demand an environmental profile as well Life Cycle Assessment is one of the widely used and popular scientific tools which has been utilized to measure the environmental footprints of various products and processes This volume presents recent advances on LCA in the textiles and clothing sector **Sustainability in Denim** Subramanian Senthilkannan Muthu,2017-06-12 Sustainability in Denim provides the latest information on sustainable fabrics and practices From cotton farming to manufacture and end of life disposal denim has extensive effects on the environment inclusive of water consumption and contamination destruction of large scale ecosystems and transportation pollution Additionally recent developments in the manufacture of denim such as the use of textiles including elastane and polyester have led to limitations in the high end recycling of denim This book includes an introduction covering the history manufacture and lifecycle of denim It deals with the sustainability aspects of denim by addressing three important pillars of sustainability the environmental social and economic aspects that when combined present a unique approach in comparison to other books on the topic The book primarily uses case studies to examine sustainability challenges throughout the denim lifecycle and to evaluate new green initiatives and recycling processes It will be of great use to industry professionals sustainability managers textile industry researchers and denim manufacturers Reviews and studies denim from a sustainability perspective addressing its major environmental social and economic impacts Provides the reader with a fundamental knowledge of the history manufacture and lifecycle of denim thus enabling a holistic view of denim sustainability Presents new green initiatives for the processing and recycling of denim products for promotion and use amongst sustainability groups Handbook of Life Cycle Assessment (LCA) of Textiles and Clothing Subramanian Senthilkannan Muthu,2015-07-25 Life cycle assessment LCA is used to evaluate the environmental impacts of textile products from raw material extraction through fibre processing textile

manufacture distribution and use to disposal or recycling LCA is an important tool for the research and development process product and process design and labelling of textiles and clothing Handbook of Life Cycle Assessment LCA of Textiles and Clothing systematically covers the LCA process with comprehensive examples and case studies Part one of the book covers key indicators and processes in LCA from carbon and ecological footprints to disposal re use and recycling Part two then discusses a broad range of LCA applications in the textiles and clothing industry Covers the LCA process and its key indicators including carbon and ecological footprints disposal re use and recycling Examines the key developments of LCA in the textile and clothing industries Provides a wide range of case studies and examples of LCA applications in the textile and clothing industries

Climate Action Through Eco-Friendly Textiles Sadhna,Rajesh Kumar,S. Greeshma,2024-02-24 This book covers the latest developments in sustainable textiles and how they can help mitigate the fashion industry s environmental impact It focuses on innovative textile production approaches by prioritizing eco friendly materials responsible sourcing ethical manufacturing practices using cutting edge technology to create textiles that are not only sustainable but also high performing and durable This book further explores the wide range of possibilities for reducing the fashion industry s environmental impact from natural dyeing techniques to biodegradable fibers This book will be of interest to students researchers fashion industry professionals environmentalists and anyone who is interested in learning more about sustainable fashion

**Smart Textiles from Natural Resources** Md. Ibrahim H. Mondal,2024-04-18 Smart Textiles from Natural Resources is an interdisciplinary guide to best practice and emerging challenges in the use of natural textiles in smart applications The movement towards smart textiles has attracted researchers from many fields creating multidisciplinary research frontiers with nanoscience smart materials and structures microelectronics and wireless communication This ground breaking book provides technical advice and foundational support to researchers from all of these backgrounds seeking to include sustainability in their solutions Each chapter in this book is written reviewed and edited to cover the principles of manufacture process techniques and mechanisms and the state of the art construction specifications properties test methods and standards of the major product areas and applications of this field Covers a wide variety of novel applications of smart textiles including medical protective and automotive Proposed solutions are based on case studies from academic and industrial labs around the world Explains how to improve the biodegradability renewability biocompatibility and non toxicity of smart products

Life Cycle Assessment and Environmental Impact of Polymeric Products T. J. O'Neill,2003 This review describes the process of life cycle analysis in some detail It describes the different organisations involved in researching and applying these techniques and the database resources being used to generate comparative reports The overview explains the factors to be considered the terminology the organisations involved in developing these techniques and the legislation which is driving the whole process forward The ISO standards relating to environmental management are also discussed briefly in the document Design for the environment is covered in the report

This review is accompanied by summaries of selected papers on life cycle analysis and environmental impact from the Rapra Polymer Library database

*Textiles and Fashion* Rose Sinclair, 2014-11-08 This major textbook is designed for students studying textiles and fashion at higher and undergraduate level as well as those needing a comprehensive and authoritative overview of textile materials and processes The first part of the book reviews the main types of natural and synthetic fibres and their properties Part two provides a systematic review of the key processes involved first in converting fibres into yarns and then transforming yarns into fabrics Part three discusses the range of finishing techniques for fabrics The final part of the book looks specifically at the transformation of fabric into apparel from design and manufacture to marketing With contributions from leading experts in their fields this major book provides the definitive one volume guide to textile manufacture Provides comprehensive coverage of the types and properties of textile fibres to yarn and fabric manufacture fabric finishing apparel production and fashion Focused on the needs of college and undergraduate students studying textiles or fashion courses Each chapter ends with a summary to emphasise key points a comprehensive self review section and project ideas are also provided

**Crafting Sustainability in Luxury Textiles for a Zero-Waste Future** Sadhna, Rajesh Kumar, E Mokanaasri, 2025-05-31 In an era where environmental consciousness is rapidly becoming a priority the luxury textile industry stands at a crucial crossroads As consumers increasingly demand products that not only offer elegance and opulence but also align with sustainable values luxury brands are facing a paradigm shift in their approach This shift towards sustainability is not merely a trend but a fundamental reevaluation of the industry's practices driven by a growing awareness of the environmental impact of textile manufacturing and consumption This contributed volume explores this transformative journey investigating how luxury and sustainability can harmoniously coexist to shape a future where opulence is synonymous with environmental stewardship The book examines the intricate relationship between luxury textiles and sustainability offering insights analyses and practical solutions for crafting a zero waste future in the high end fashion industry The book serves as a valuable resource for scholars practitioners and policymakers seeking to navigate the complexities of sustainable textile production while maintaining the essence of luxury and craftsmanship Through a collaborative effort the work presented here sets the stage for a future where luxury textiles captivate the senses and inspire a profound sense of environmental responsibility paving the way toward a zero waste future in high end fashion

**SDG 12 and Global Fashion Textiles Production** Abu Sadat Muhammad Sayem, Parik Goswami, 2025-08-23 This book is a comprehensive exploration of the intersection between the fashion textiles industry and United Nations Sustainable Development Goal 12 responsible consumption and production SDG 12 It delves into the intricate web of environmental social and economic challenges posed by the fashion textile sector and provides innovative solutions to align with the principles of SDG 12 In Chapter 1 the interconnectedness of fashion and various UN SDGs is highlighted with a specific focus on SDG 12's call for responsible consumption and production The startling statistics such as fashion's contribution to global

wastewater carbon emissions pesticide use and hazardous working conditions underscore the urgency for change Chapter 2 introduces a ground breaking framework Identify Act Evaluate I A E crafted to usher in sustainable practices within fashion and textile production Technological advancements in fibre production recycling weaving and knitting techniques are explored in Chapters 3 through 6 offering a roadmap for transforming traditional pollution intensive processes Chapter 7 delves into revolutionary dyeing printing and coating methods including water free dyeing and plasma technology The book further delves into the broader sustainability landscape of apparel manufacturing and the fashion industry in Chapters 8 through 10 encompassing environmental social and economic dimensions Concluding with an insightful investigation into climate change s aftermath on the fashion manufacturing sector the book underscores the imperative of resilience in tandem with sustainability This book paves the way for an eco conscious revolution within the textile industry urging stakeholders to embark on a journey towards a more responsible and resilient future

### **Roadmap to Sustainable Textiles and Clothing**

Subramanian Senthilkannan Muthu,2014-10-08 This book covers the elements involved in achieving sustainability in textiles and clothing sector The chapters covered in three volumes of this series title cover all the distinctive areas earmarked for achieving sustainable development in textiles and clothing industry This third volume highlights the areas pertaining to the regulatory aspects and sustainability standards applicable to textiles and clothing supply chain There are various standards earmarked for measuring the environmental impacts and sustainability of textile products There are also plenty of certification schemes available along with the index systems applicable to textile sector Brands and manufactures are also venturing into new developments to achieve sustainable development in textile sector This third volume addresses all these important aspects

**Sustainable Fibres and Textiles** Subramanian Senthilkannan Muthu,2017-05-29 Sustainable Fibres and Textiles provides a whole lifecycle approach to the subject of sustainable textiles from fiber production through manufacturing and low energy care and recycling The scientific industrial regulatory and social aspects of this lifecycle are explored by an expert author team who bring global perspectives to this important subject The first part of the book provides detailed coverage of the sustainable production of textiles with chapters devoted to each of the main fiber types including new biosynthetic fibers such as textiles produced from Polylactic Acid PLA The second part examines sustainable production methods focusing on low carbon production technologies and sustainable low pollution methods of processing and dyeing fabrics The final sections explore the benefits of textiles designed to enable low energy fabric care via both finishes used to treat the fabric and better care labelling Re use and recycling options are also covered as are ethical aspects such as fair trade fabrics Presents an integrated understanding of sustainability through the whole supply chain from agriculture through manufacturing and fabric care to recycling Teachers users how to make optimal choices of fiber and manufacturing technologies to achieve the sustainable production of high quality apparel and other textile products Provides a wider understanding of emerging regulatory frameworks that will shape the future of sustainable textiles

*Novel Sustainable*



*Alternative Approaches for the Textiles and Fashion Industry* Subramanian Senthilkannan Muthu, 2023-09-26 Environmental impacts created by the textiles and fashion sector are well known and acknowledged by various stakeholders involved in the entire supply chain. The entire lifecycle of textile products creates various impacts to the environment and hence any attempts to alleviate the impacts are highly welcomed. The whole sector is keen to investigate novel sustainable alternatives in terms of raw materials, processes, approaches to make the entire textiles and fashion sector more sustainable. This broad title of novel sustainable alternatives can be split into three subtopics: novel raw material alternatives, novel process alternative, and novel alternative approaches. This volume is dedicated to deal with the novel sustainable alternative approaches for the textiles and fashion industry. Circularity in Textiles Syeda Rubab Batool, Sheraz Ahmad, Yasir Nawab, Muzzamal Hussain, 2023-12-26 This book explains the basic principles of recycling and circularity in textiles. With the emergence of quick fashion, textile manufacturing has expanded significantly over the past few decades. The importance of textiles to human society goes beyond their practical uses in providing warmth, protection, and comfort. Therefore, the usage and production of textiles are enhanced substantially compared to the past globally. As a result, rates of textile production and trash output have grown drastically. The other side of the story is the drastic rate at which they are dumped into landfills, which is almost a garbage truck every second. If this alarming trend continues, there will be serious environmental consequences. It is well known that the textile sector is recognized as the second largest industrial polluter in the world, producing 20% of the global wastewater and accounting for 10% of carbon emissions. Additionally, harmful chemicals are utilized and emitted during the manufacture of textiles, which has an impact on ecosystems and public health. The last 150 years of the textile industrial system fundamentally follow the take-make-dispose principle, in which resources are continuously taken out of a natural system, changed during production, made and used for various purposes within the human system, and then released back into the environment to be disposed of. In this way, manufacturing industries produce waste-producing commodities to make money, which eventually has a negative impact leading to the lack of resources, resulting in price volatility, uncertainty, and economic crises. This book consists of 11 potential chapters to cover all the aspects of circularity in textiles. *Textiles and Clothing Sustainability* Subramanian Senthilkannan Muthu, 2016-08-20 This book comprehensively covers the topic of sustainability in the clothing and fashion sector. Sustainability is applied under different industrial sectors, and there has to be a distinction in every industrial sector when it comes to sustainability in its application. Though the definition is common for sustainability, sustainability in the clothing sector has its unique objectives, principles, and limitations, which this book highlights.

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