Textile Preparation And Dyeing

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Textile Preparation And Dyeing ***2023-04-10***

ROGERS SIERRA

Dyeing and Screen-Printing on Textiles UPNE
"This book is the final integration of a series of 24 papers [...] which were published in Textile Chemist and Colorist between October 1991 and November 1993"--Preface.
With Numerous Engravings and Diagrams - Primary Source Edition Elsevier
The type and amount of textile products have greatly proliferated over the last decade. Concomitant textile processing to improve the properties and ultimate performance has also undergone dramatic changes. Ready availability of instrumentation, computers, lasers and integration of these advances with similar progress in polymer/material science have led to the need for a unified discussion on these topics. The current book concisely discusses all aspects of textile processing, modification and performance for four major topics: preparation (by fiber type), dyeing and printing (dye type, theory and synthesis; dye classification by structure and application), improving functional and aesthetic textile properties (physical, chemical and physicochemical processes and concepts), and performance (chemical analysis, instrumental methods; physical, chemical, biological, multiple influences and standard tests). A detailed and logical progression from the initial purification of textiles to their performance and care is described. The book will be useful as a text for textile/polymer courses at undergraduate and graduate levels and as a comprehensive source of information for textile scientists, engineers, manufacturers, retailers and others with an interest in textile products.
Textile Fabrics and Their Preparation for Dyeing ASIA PACIFIC BUSINESS PRESS Inc.
With the public enhanced awareness towards eco-preservation, eco-safety and health concerns, environmentally benign, nontoxic and sustainable bioresource materials produced mainly from non-food crops have revolutionized all industrial sectors particularly textile industry. In recent years, textile industries in developed countries are getting increasing interest in global interest due to the varied and changing world market conditions in terms of price, durability and fiber mixtures as well as design, colors,

weight, ease of handling and product safety. The increasing environmental and health concerns owing to the use of large quantities of water and hazardous chemicals in conventional textile finishing processes lead to the design and development of new dyeing strategies and technologies. Effluents produced from these textiles wet processing industries are very diverse in chemical composition, ranging from inorganic finishing agents, surfactants, chlorine compounds, salts, total phosphate to polymers and organic products. This aspect forced western countries to exploit their high technical skills in the advancements of textile materials for high quality technical performances, and development of cleaner production technologies for cost effective and value-added textile materials. Therefore, vast and effective research investigations have been undertaken all over the world to minimize the negative environmental impact of synthetic chemical agents through the sustainable harvest of eco-friendly bioresource materials. The book will discuss following research developments in academic and industry: Improvement in dye extraction and its applications Impact of textile dyeing on environment Textile finishing by natural and ecofriendly means Natural dyes as environmental-friendly bioresource products Textile effluent remediation via physical, chemical and biological processes.

The Thames and Hudson Manual of Dyes and Fabrics Thames & Hudson

Principles of Textile Finishing presents the latest information on textile finishing for industry professionals and researchers who are new to the field. As these processes are versatile and varied in their applications, the book provides information on how decisions on finishes and techniques may be made subjectively or based on experience. In addition, the book presents the desired final properties of textile materials and how they differ widely from product to product, helping finishers who face significant challenges in delivering fabrics that meet the requirements of end-users be successful. Written by an author who is an expert in the field, and who has with many years of experience in industry and academia, this book provides an accessible introduction to the principles, types, and applications of textile finishes. Provides an accessible introduction to the principles, types, and applications of textile finishes Assists industry professionals and researchers in selecting finishes that will result in fabric properties that meet the requirements of end-users Written by an author with years of experience in industry and academia and who is an expert in the field

Textile Fabrics and Their Preparation for Dyeing Courier Corporation

This is a comprehensive book that imparts technological skills about the colouration of textiles. It discusses academic as well as shop-floor aspects of colouration. It also covers eco-friendly enzymatic processing and differential coloured effects.

Modern Design and Approaches AATCC

Textile Preparation and DyeingScience Publishers

With Numerous Engravings and Diagrams Read Books Ltd

First published in1906, this book contains a classic guide to textiles, dealing specifically with various different fabrics and how they should be prepared and dyed. Written in simple, clear language and full of helpful illustrations and diagrams, “Textile Fabrics and Their Preparation for Dyeing” is perfect for textile

novices and DIY enthusiasts, and it would make for a wonderful addition to collections of related literature. Paul Nooncree Hasluck (1854 – 1916) was an Australian engineer and editor. He was a master of technical writing and father of the 'do-it-yourself' book, producing many books on subjects including engineering, handicrafts, woodwork, and more. Other notable works by this author include: “Treatise on the Tools Employed in the Art of Turning” (1881), “The Wrath-Jobber's Handy Book” (1887), and “Screw-Threads and Methods of Producing Them” (1887). Many vintage books such as this are increasingly scarce and expensive. It is with this in mind that we are republishing this volume now in an affordable, modern, high-quality edition complete with a specially-commissioned new biography of the author.

Textile Fabrics and Their Preparation for Dyeing Woodhead Publishing

Inspiration and easy-to-follow instruction for creating dyed fabrics in a variety of patterns, textures and colors.

All About Traditional Textile Fabrics For DIY Spinning, Weaving, And Dyeing (Legacy Edition) John Wiley & Sons

Dealing with the classical processes for textile dyeing, as well as with the preparation of the material before dyeing, this book also includes recent technological developments. Both theoretical and the practical aspects are covered in order to enable the students and the technicians to understand the processes clearly.

Fundamentals and Practices in Colouration of Textiles Elsevier

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Handbook of Textile and Industrial Dyeing Elsevier

This deluxe reprint Legacy Edition of Paul N. Hasluck's All About Traditional Textile Fabrics For DIY Spinning, Weaving, And Dyeing (previously published as "Textile Fabrics And Their Preparation For Dyeing" in 1906) is full of old-time tips and methods for learning the traditional approaches to textiles, fabric making, spinning fibers, and preparing cloth for fabric coloring in the traditional way. Originally published in 1906, this handy little guide touches on every aspect of traditionally used textiles, including information on plants and their growth, animal sources of fiber (e.g., wool and silk), structural information on fibers, and how to prepare fibers for turning them into cloth and dyeing.

Applications of Dyes Archetype Books

Covers the chemical aspects of textile printing, the nature of

dyes, printing techniques, preparation of the cloth, finishing and colorfastness testing, with an introductory section on fabrics and fibers

With Numerous Engravings and Diagrams Woodhead Publishing

In the last 10 years organic dyes, traditionally used for coloring textiles and other materials, have become increasingly important in the hi-tech industries of electronics and optoelectronics. They can be used in optical data storage, new solar cells and biomedical sensors. Functional Dyes discusses the synthesis of these new, high-value dyes and pigments as well as their applications and performance. The chapters are arranged so that the reader logically advances from the fundamental concepts to more practical aspects of the technology in which they are used. In providing the reader with current information on functional dye chemistry, as well as important developments within the field, Functional Dyes is a valuable information source for dye and material chemists, researchers and graduates, who want a summary of the key advances in the field over the last 10 years and an authoritative view on future developments. * Provides a broad introduction to the science technology of the functional dye application * Reviews recent advances on synthesis and characteristics of the functional dyes and their applications * Is a valuable information source for dye and material chemists and researchers

Textile Fabrics and Their Preparation for Dyeing Elsevier

PREFACE: IN the present volume, dealing with the Chemical Technology of the Textile Fibres except as concerns the dye-stuffs, which will be treated in a separate work, the author has been obliged to con- dense the available matter as much as possible, in order to preserve the form of a text-book. Nevertheless, it seemed necessary, in certain cases, in the interests of the book, to give definite data and an exact description of individual processes. In such instances the details have been gathered exclusively either from the authors personal experience or from reliable sources. The most important part of the book is the chapter treating of dyeing, whilst, on the other hand, the subject of printing had to be dealt with in a more general fashion, the materials being less suitable for treatment in text-book style. The author thinks it desirable to point out that in the present work an attempt has been made to completely separate the chemical and mechanical technology of the subject, a standpoint he considers justified by the extensive area occupied by each of these branches. Hence only a few sketches of apparatus have been given and the methods of dressing the finished goods have been described very briefly, since they almost entirely belong to the domain of mechanical technology. ...GEOEG VON GEOEGIEVICS. Artificial Fibres . Mineral, . Vegetable Cellulose..... Cotton . . . . Bombax Cotton .... Vegetable Silk .... Flax .- . . .. Hemp Jute Ramie, Rhea, China Grass, Nettle Fibre . Contents include: CHAPTER L THE TEXTILE FIBRES Distinguishing Tests for the Various Fibres Animal Fibres .... Silk . . Animal Hairs . Sheeps Wool . Goat Wool and Camel Wool Artificial Wool Wool Substitutes Conditioning CHAPTER II. WASHING, BLEACHING, CARBONISING Washing and ..... Bleaching Definition Bleaching Agents ... Cotton-Bleaching . . .. PAGE iii 1 2 2 3 8 12 12 12 16 17 19 20 2-2 23 34 35 45 46 19 50 53 viii CONTENTS Linen-Bleaching . . . Ramie-Bleaching... Hemp-Bleaching... Jute-Bleaching . 76 Scouring and Bleaching Silk 77

Washing and Bleaching Wool ... 80 Blueing or White 86 Dyeing... Carbonising .... 87 CHAPTER III. MORDANTS AND MORDANTING Mordants..... 95 Mordanting Wool . ... 96 Mordanting Silk . . . . . .98 Mordanting Cotton ..... 99 Alumina Mordants . . . . . .102 Mordants..... Iron Mordants . . . . . .,106 ..... Chrome 108 Tin Mordants 112 Copper and other Mordants . . . . .114 The Fixing Agents Acid Mordants 115 Tannic Acids ... . Oleic Acids . . . PAGE . . . . .116 - . . . . .122 CHAPTER IV. DYEING 1. Theory of Colour Combination of Colours Dyeing to Pattern . . 125 2. Theory of Dyeing . . . . . 130 3. Classification of Dye-Stuffs Methods of Dyeing . . . ., 138 Application of Acid Dye-Stuffs . . . . Application of Basic v . Dye-Stuffs ., . . .- 143 Application of Direct or Substantive Cotton Dyes..... . Dyes . . 146 Application of the Mordant 154 Dyeing with Cochineal . . . . .160 Dyeing with Catechu..... 178 Black and Blue Dyeings with Logwood on Wool . . . 163 Turkey-Red Dyeing . .. . -. . .172 Black-Dyeing Cotton with Logwood..... 180 ...

Environmental Aspects of Textile Dyeing A&C Black

Dyeing is one of the most effective and popular methods used for colouring textiles and other materials. Dyes are employed in a variety of industries, from cosmetic production to the medical sector. The two volumes of the Handbook of textile and industrial dyeing provide a detailed review of the latest techniques and equipment used in the dyeing industry, as well as examining dyes and their application in a number of different industrial sectors. Volume 2 deals with major applications of dyes and is divided into two parts. Part one covers textile applications, with chapters dealing with the dyeing of wool, synthetic and cellulosic fibres, and textile fibre blends. In part two, industrial applications of dyes are examined, with topics including dyes used in food and in the cosmetics industry. With its distinguished editor and contributions from some of the world’s leading authorities, the Handbook of textile and industrial dyeing is an essential reference for designers, colour technologists and product developers working in a variety of sectors, and will also be suitable for academic use. Provides a detailed review of the latest techniques and equipment used in the dyeing industry Industrial applications of dyes are examined, with topics including dyes used in food and in the cosmetics industry Is appropriate for a variety of different readers including designers, colour technologists, product developers and those in academia

Preparation, Dyeing, Finishing and Performance C&T Publishing Inc

This is a clear, easy-to-follow guide for students, accomplished artists and designers who want to expand their knowledge of techniques for dyeing and screenprinting on textiles. The book covers many of the key processes used in creating dyed and screen-printed fabrics using a range of synthetic dyes. Included are recipes for cloth preparation, instructions for dyeing, printing, and fixing dyes, designing repeats, and preparing imagery and screens for exposure. The step-by-step instructions are accompanied by inspirational illustrations from practitioners around the world. Advice is also given on equipment needed for setting up a studio and safe working practice. This new edition of Dyeing and Screenprinting on Textiles has been fully updated and contains many new photographs.

Revised and updated Furnas Press

Textile industry is one of the few basic industries, which is

characterised as a necessary component of human life. One may classify it as a more glamorous industry, but whatever it is, it provides with the basic requirement called clothes. Spinning is the process of converting cotton or manmade fibre into yarn to be used for weaving and knitting. Weaving is a method of textile production in which two distinct sets of yarns or threads are interlaced at right angles to form a fabric or cloth. Finishing refers to the processes that convert the woven or knitted cloth into a usable material. Printing is the process of applying colour to fabric in definite patterns or designs. The textile industry occupies an important position in the total volume of merchandise trade across countries. Developing countries account for little over two-third of world exports in textiles and clothing. It is the second largest employer after agriculture, providing employment to over 45 million people directly and 60 million people indirectly. The future for the textile industry looks promising, buoyed by both strong domestic consumption as well as export demand. This book is based on the latest technology involved in textile industry, which describes the processes available at the spinning and fabric forming stages coupled with the complexities of the finishing and colouration processes to the production of wide ranges of products. The major contents of the book are dyeing of textile materials, principles of spinning, process preparatory to spinning, principles of weaving, textile chemicals, yarn preparation, weaving and woven fabrics, knitting and knit fabrics, nonconventional fabrics, cellulosics, mixed fibers, printing compositions, printing processes, transfer dyes, transfer inks etc. It describes the manufacturing processes and photographs of plant & machinery with supplier's contact details. It will be a standard reference book for professionals, entrepreneurs, textile mill owners, those studying and researching in this important area and others interested in the field of textile industry.

Innovative and Emerging Technologies for Texile Dyeing and Finishing Andesite Press

A reference guide to all you need to know to dye fabric, including necessary tools, the best dyes, which fabrics to use, additives, precautions, and more. Dyeing expert and author of Fabric Dyer's Dictionary, Linda Johansen offers a full overview of the process, including special tips and techniques for tricky colors. The compact size is perfect to take along to a class or to the fabric store to match complementary fabrics and materials. And the hidden wire-o binding will allow the guide to lay flat next to your work surface for easy reference. Dyeing is addictive! You'll come back to this must-have guide over and over Complete and easy-to-follow recipes for every shade and hue for each color of the spectrum Includes directions for Dharma and ProChemical dyes

Principles of Textile Finishing Nabu Press

An overview of well-known dyestuffs used for dyeing textiles, and the relation between dyestuffs and organic pigments in paintings and their historical relevance.

Their Origin, Structure, Preparation, Washing, Bleaching, Dyeing, Printing and Dressing Woodhead Publishing

* A chemical and botanical investigation into dyes from natural sources used through history * This book explores the many uses and the environmentally safe application of natural dye From plants to insects, natural dyes have been used since before recorded history. This book examines the possibilities offered by

natural dyes, such as staining and fabric patterning. This work focuses on the sources of dyes that can grow wild in Finland, or are suitable for cultivation in the southern regions. The reader is presented with color dyes from different sources and provides guidance for dyeing and textile painting. Traditionally connected to small-scale craftsmanship, natural dyes can now can take advantage of industrial-scale production. This book discusses the wide range of natural properties of dyes substances, as well as their environmental friendliness and UV protection.