Fabric Dyeing And Printing

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Principles of Textile Finishing

This book follows the creative process of designing and printing textile patterns, from the initial sourcing of ideas to the final high-quality creation. It provides ideas and practical information at a level easily accessible to textile students and designers, but also to novices who would like to learn more. Throughout, the text is enhanced by an exciting range of images, from historical surface-pattern designs and textiles to the work of contemporary designers. Topics include advice on generating ideas and expressing them visually; a cultural and historical background to surface-pattern design; experimental methods of working from paper onto fabric; and practical details on fabrics, equipment, and techniques for dying and printing. June Fish teaches at London’s Central St. Martins College for Art and Design.

Textile Printing

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 and Clothing Design Technology

Provides an accessible guide to hand-printing fabric, and includes tips on translating design ideas into prints, the different modes of transfer, and how to use effective color combinations.

Eco Colour

Explains how to prepare dyes, develop working designs, and create base colors, and details all the options for direct and indirect printing methods

Textile Processing and Properties

This work guides the reader through the choice of fabric types, the range of dye recipes and the profusion of traditional and new techniques. Exploring the patterning options with the help of detailed step-by-step photography, this book enables the reader to choose and work through any one of the over 30 techniques including: Preparing natural dyes; to printing with foils; hand-block printing to screen printing and the use of resist techniques. In addition, the work of contemporary designers such as Georgina von Eztdorf, Timney Fowler, Cressida Bell, and Janet Stoyle, is highlighted to demonstrate how techniques can be combined and interpreted.

Fabric Dyeing and Printing

In the textile industry, there is a pressing need for people who can facilitate the translation of creative solutions from designers into manufacturing language and data. The design technologist has to understand the elements and principles employed by designers and how these change for various textile media. One must also have a good understanding of the processes, materials and products for which the textile designer is required to produce creative solutions. This book will be for designers wishing to improve their technological knowledge, technologists wishing to understand the design process, and anyone else who seeks to work at this design-technology interface. Key Features: • Provides a comprehensive information about textile production, apparel production and the design aspects of both textile and apparel production. • Fills the traditional gap between design and manufacture changing with advanced technologies. • Includes brief summary of spinning, weaving, chemical processing and garmenting. • Facilitates translation of creative solutions from designers into manufacturing language and data. • Covers set of workshop activities.

Textile Dyeing

"For several thousand years, all dyes were of animal, vegetable, or mineral origin, and many ancient civilizations possessed excellent dye technologies. The first synthetic dye was produced in 1856, and the use of traditional dyes declined

rapidly thereafter. By 1915 few non-synthetics were used by industry or craftspeople. The craft revivals of the 1920s explored traditional methods of natural dyeing to some extent, particularly with wool, although the great eighteenth- and nineteenth-century dye manuals, which recorded the older processes, remained largely forgotten. In The Art and Craft of Natural Dyeing, J.N. Liles consolidates the lore of the older dyers with his own first-hand experience to produce both a history of natural dyes and a practical manual for using pre-synthetic era processes on all the natural fibers--cotton, linen, silk, and wool. A general section on dyeing and mordanting and a glossary introduce the beginner to dye technology. In subsequent chapters, Liles summarizes the traditional dye methods available for each major color group. Scores of recipes provide detailed instructions on how to collect ingredients--flowers, weeds, insects, wood, minerals--prepare the dyevat, troubleshoot, and achieve specific shades"--Publisher's description.

Foolproof Fabric Dyeing:

General chemistry related to textiles -- Textile fibres -- Chemistry of dyes and pigments -- Industrial coloration methods -- Textile printing -- Theoretical aspects of dyeing -- The measurement of colour -- Fastness testing

Eco-Friendly Textile Dyeing and Finishing

Contains instructions and techniques for printing on fabric, covering block printing, silk screen, batik printing, and more.

Embellish Me

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 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

A Dyer's Manual

Ink Jet Textile Printing

Features of this book include sections on: setting up a dye shop; painting mediums; aging and distressing; a glossary; and much more!

Textile and Clothing Design Technology

This sourcebook shows over 35 techniques and applications in step-by-step detail from block printing, batik and tie-dyeing to devore, screen printing and computer-generated methods. Recipes are given for natural and chemical dyes, with information on the appropriate ingredients for each fabric. advice is given on how to equip your workspace. Close-up photographs of work from fabric designers complement the instructional element of the book.

Fabric Dyeing and Printing

Although textiles rarely survive in archaeological contexts, we know that dyeing and weaving were practised in the ancient world. This book is part historical and part experimental as Jill Goodwin, well known for her research into dyeing, imparts her knowledge and experiences with dyeing processes. A step-by-step guide teaches the uninitiated how to select fibres, obtain dyes from various plant, insect and soil sources, and what equipment is needed. A review of ancient dyes, including Tyrian purple, St John's Blood, cochineal, tumeric, saffron, henna and indigo, is given alongside experimental work carried out in East Anglia.

Sustainable Technologies for Fashion and Textiles

Sustainable Technologies for Fashion and Textiles combines the latest academic research and industrial practices to shed light on a wide range of activities that influence how the textiles industry affects the natural environment. Pressure from regulators, customers and other stakeholders has pressed companies to translate general sustainability concepts and ideas into business practices. This is leading to improvements in how the industry consumes water, electricity and chemicals, and to a reduction in the amount of waste generated by textile processes. This book groups approaches to these topics under four themes, fiber, yarn and fabric production, chemical processing, garment manufacturing and recycling. Addresses sustainability challenges that occur throughout the supply chain, from the sourcing of raw materials, to recycling finished products Provides introductions to sustainability—both in general and within the textiles industry—making this topic accessible for readers of all backgrounds Compares the advantages and disadvantages of different approaches to sustainability, helping readers avoid pitfalls when devising their own strategies

Textile Dyeing

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 Wet Processing Technician

This guide is aimed at those who wish to expand their knowledge of current printing and dyeing techniques. It should be of interest to both textile and printmaking students. Topics include: recipes for cloth preparation, dyeing and printing, fixation, designing a repeat, and preparing imagery and scenes for exposure. Advice is given on equipment needed for setting up a studio and safe working practices. The step-by-step instructions are accompanied by inspirational illustrations from practitioners around the world.

Dyeing and Screen-Printing on Textiles

Embellish Me is the ultimate guide to achieving the perfect surface finish for your fabric-based projects. Comprehensive step-by-step instructions are accompanied by detailed illustrations that illuminate an extensive range of fabric alteration and embellishment techniques. Learn tie-dyeing, bleaching, and shibori; block, silk-screen, and digital printing; and beading, embroidery, and applique. This information-rich guide will equip you with all the information you need to apply these techniques to any number of fabric projects, from tote bags and clothes to cushion covers, lampshades, toys, and home furnishings. Galleries throughout the book will inspire you to engage with these techniques, showing how they have been applied to fabric and providing a valuable starting point for your craft. Divided into three sections, Embellish Me begins with essential information on tools and materials, as well as a comprehensive chapter on pattern design, which covers computer-rendered patterns in addition to hand-drawn designs. The second section is organized by technique, covering bleaching, dyeing, and printing, as well as more complex embellishing techniques such as embroidery, needle punching, and foil embossing. Each chapter concludes with an artist interview, giving you insight into the working practices of contemporary fabric crafters, and providing further inspiration for your own projects. The third section rounds out the book with instructions for crafters who want to take their fabric designs to the next level, and offers in-depth advice on important issues such as how aspiring crafters can best market and sell their own designs.

Textile Design

This authoritative guide outlines everything readers need to know to create gorgeous fabrics. There's nothing like it on the market! Collected within are step-by-step tutorials for designing patterns (both digitally and by hand), a

comprehensive section on printing techniques—including digital printing, screen printing, stenciling, block printing, and resist dyeing—and even insider tips for developing a collection and bringing it to the marketplace. Beautifully illustrated with swatches of exquisite fabrics and hundreds of photos, and featuring interviews with established designers such as Skinny laMinx, Ink & Spindle, and Julia Rothman, Mastering the Art of Fabric Printing and Design is a key resource for anyone looking to learn the basics, expand their skill set, or find design inspiration.

Fabric Painting & Dyeing for the Theatre

Hand Dyed is a modern introduction to indigo and fiber-reactive dye that every crafter should have. Exploring traditional techniques like shibori and using organic compounds, this comprehensive how-to guide offers everything you need know to create stylish, richly colored and patterned pieces. Classic techniques and natural materials make these projects beautiful and accessible, even for the beginner. Items such as an elegant robe, a duvet cover set, drum lampshades, and even a hammock will invite a new generation of design lovers and style mavens to fall in love with this traditional, magical, and surprisingly straightforward process. Anna Joyce is the perfect instructor to teach the skills needed to create more than 25 masterpieces for the home and wardrobe that readers will want to wear, live with, and most importantly, make by hand.

Batik, Tie Dyeing, Stenciling, Silk Screen, Block Printing

Plants are important for a permanent ecosystem, because in the ecological pyramid plants support all the other living organisms at the base. Very important organization is thought to be the integral process of resource, transport, partitioning, metabolism, and production, which involves yield, biomass, and productivity in plants. Accordingly, it is important to obtain more information about the knowledge concerning yield, biomass, and productivity in plants. Soybean is one of the main crops largely contributing to our life, which is thought to be connected to our ecosystem through the above-mentioned integral process. This book focuses on the soybean, and reviews and research concerning the yield, biomass, and productivity of soybean are presented herein. This text updates the book published in 2017. Although there are many difficulties, the main aim of this book is to present a basis for the above-mentioned integral processes of resource, transport, partitioning, metabolism, and production, which involves yield, biomass, and productivity in plants (soybean), and to understand what supports this basis and the integral process. It is hoped that this and the preceding book will be essential reads.

Textiles and Fashion

In the textile industry, there is a pressing need for people who can facilitate the translation of creative solutions from designers into manufacturing language and data. The design technologist has to understand the elements and principles employed by designers and how these change for various textile media. One must also have a good understanding of the processes, materials and products for which the textile designer is required to produce creative solutions. This book will be for

designers wishing to improve their technological knowledge, technologists wishing to understand the design process, and anyone else who seeks to work at this design-technology interface. Key Features: • Provides a comprehensive information about textile production, apparel production and the design aspects of both textile and apparel production. • Fills the traditional gap between design and manufacture changing with advanced technologies. • Includes brief summary of spinning, weaving, chemical processing and garmenting. • Facilitates translation of creative solutions from designers into manufacturing language and data. • Covers set of workshop activities.

Advances in Textile Engineering

Handbook of Textile and Industrial Dyeing

This book, with its internationally peer-reviewed papers, covers the subject areas of Textile Science and Technology, Textile Dyeing and Finishing, Textile Machinery and Equipment, Apparel Design and Merchandising and New Trends in the Textile Industry. It will be of interest to anyone working in these subject areas.

Printed Textile Design

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

Handbook of Textile and Industrial Dyeing

Learn to Dye Fabric the Quick and Easy Way. 12 can't-miss techniques for adding custom color to fabric, clothing, linens, and household goods. Fast! Lynn teaches you the techniques that produce rich results with minimal time and effort. Fun! Learn to create lots of exciting color blends, patterns, and textures. Easy! All you need to get started is this book, a few supplies, a measuring spoon, and some plastic containers. How can you make quilting or crafting more fun? Add color!

Everything you need to know about creating fabulous hand-dyed fabrics is right here - what supplies to get, basic techniques to try, and how to achieve different visual effects. Photo galleries give you lots of ideas for projects to show off the results.

Botanical Inks

The Complete Guide to Designing and Printing Fabric is a comprehensive handbook covering everything there is to know about designing and printing fabric. The book walks readers through the entire fabric design process, from finding inspiration, through step-by-step tutorials on how to design a pattern (both digitally and by hand), looking at different printing methods (such as digital printing, screenprinting, monoprinting, stamping, stencilling, resis dying, painting and inkjet printing), to establishing and developing a fabric collection, and approaching a manufacturer. The Complete Guide to Designing and Printing Fabric is full of advice from established fabric designers with clear, easy to follow step-by-step tutorials. Textile design is a competitive industry and learning how to design fabric is something that both designers and crafters with an avid interest in fabrics are keen to learn more about. Companies such as Spoon Flower (spoon.flower.com) have emerged,

The Art and Craft of Natural Dyeing

Textile design is a complex field of practice which operates in a competitive, global industry. Designers need to take into account not only the design but also the manufacture, technological development and application of the final product. Textile design provides a broad overview of the fundamentals of and advances in textile design, as well as practical case studies of relevant industries. Part one covers the principles of fabric construction as applied to textile design, with chapters on fundamental principles, woven and knitted textile design. Part two discusses surface approaches to textile design, with chapters on such topics as surface design of textiles, printed and embroidered textile design, dyeing and finishing and the use of colour in textile design. Finally, part three focuses on the applications and advances in textile design, including chapters covering colour trend forecasting, sustainable textile design, fashion, interior and 2D to 3D design considerations and new developments in technical and future textiles. With its distinguished editors and international team of contributors, Textile design is an essential reference for design professionals in the textile and fashion industries, as well as those who specialise in interior textiles and academics with a research interest in the area. A broad overview of textile design covering fundamental topics such as principles of fibres and fabrics, knitted fabric design, through to the dyeing, finishing and printing aspects of textile design Explores the design aspects of technical textiles and future textiles An invaluable source of information on textile design and suitable for design professionals in the textile and fashion industries, as well as those in academia

Fabric Dyeing and Printing

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 1 deals with the principles of dyeing and techniques used in the dyeing process, and looks at the different types of dyes currently available. Part one begins with a general introduction to dyeing, which is followed by chapters that examine various aspects of the dyeing process, from the pre-treatment of textiles to the machinery employed. Chapters in part two then review the main types of dyes used today, including disperse dyes, acid dyes, fluorescent dyes, and many others for a diverse range of applications. 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. Examines dyeing and its application in a number of different industrial sectors Deals with the principles of dyeing and techniques used in the dyeing process, as well as types of dyes currently available Chapters review various dye types right through to modelling and predicting dye properties and the chemistry of dyeing

An Introduction to Textile Coloration

This book explains the fundamentals of printed textile design, from design brief through to the completed collection, and introduces the basics of color, drawing, composition, and repeat with a series of step-by-step exercises and examples. Printed Textile Design helps to demystify the design process and provides an invaluable guide to the study and practice of textile design. The book includes case studies of designers working in both the fashion and interiors sectors. It covers hand and traditional print techniques and the latest digital print technologies, with specially commissioned photographs of the processes. All aspects of textile design are covered, from sustainability to manufacturing and marketing the finished product.

Fast Fun & Easy Fabric Dyeing

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.

The Surface Designer's Handbook

Textile Wet Processing Technician is a simple e-Book for ITI Engineering Course Textile Wet Processing Technician, First & Second Year, Sem- 1,2,3 & 4, Revised Syllabus in 2018, It contains objective questions with underlined & bold correct answers MCQ covering all topics including all about safety precautions during filing, marking, punching and drilling, various types' gauges, types of lathes and its functions, Turning tool grinding, tool setting and job setting, facing and chamfering, plain turning, various types of welding and welding process, carpentry

work, different electrical and electronic measuring instruments, types of fibres and various lubricants used for different parts of the machineries,, Washing and drying of different textiles and machineries, starching of fabric, chemical softening biochemical/enzyme assisted processes carried over for textile fabrics, effluent treatment plant with chemical dosing, filtration and aerations with situation of clear choice & calculations of steam , energy, operation of boiler, dyeing process of wool, silk, flax and jute with suitable dyes using appropriate machines, screen printing machines, electronic controller used in dyeing and printing machine and lots more.

Designing and Printing Textiles

Stenciling, batik, block printing, tie dyeing, freehand painting, silk screen printing, and a number of novelty decorations such as relief and ball point painting, flocking, and transferring pictures are all covered in this well-known introduction. If you have ever wanted to create your own fabric designs, from adding stenciled or printed details to creating overall designs with batik or tie dying, this book will guide you quickly and easily to the best techniques. Through over 350 illustrations and complete step-by-step explanations, the author leads you through every step of each technique from gathering materials and creating designs all the way through until the finishing touches have been completed. Along the way you will have learned basic design considerations — the way each technique creates its own design limitations, two- and three-color processes, the best inks and dues for each technique, the tools (including how to make many of them), the working area set up, and many unusual effects with basic exercises, specific projects, and the best procedures for using all the basic methods you are likely to use. With so many methods contained in one book, you can easily discover the ones best suited to your own time, budget, and needs. In addition, a number of illustrations of completed items give you a better idea of the possibilities of each technique and show the best examples of each. Artists, designers, students, and craftsmen will welcome this opportunity to learn a number of techniques for the hand decoration of fabric. By the time you finish you will be well acquainted with the most successful methods that you can use and can go on to design and decorate fabrics on your own.

Printing on Fabric

An expert, highly accessible and achievable handbook of ecologically sustainable plant dye methods using renewable resources

Soybean

Get info on all of the basics you need to dye fabric, including necessary tools, the best dyes, precautions, and more--all in one handy reference tool! Dyeing expert Linda Johansen offers a full overview, including special tips for tricky colors. The compact size is perfect to take along to a class or to the fabric store, and the wire-o binding will allow the guide to lay flat for easy reference.

Playful Fabric Printing

With the rapid expansion of ink jet printing, textile printing and allied industries need to understand the principles underpinning this technology and how it is currently being successfully implemented into textile products. Considering the evolution of new print processes, technological development often involves a balance of research across different disciplines. Translating across the divide between scientific research and real-world engagement with this technology, this comprehensive publication covers the basic principles of ink jet printing and how it can be applied to textiles and textile products. Each step of the ink jet printing process is covered, including textiles as a substrate, colour management, pre-treatments, print heads, inks and fixing processes. This book also considers the range of textile printing processes using ink jet technology, and discusses their subsequent impact on the textile designer, manufacturer, wholesaler, retailer and the environment. Covers the foundations and development of ink jet textile printing technology Discusses the steps of ink jet printing from colour management to fixing processes Analyses how ink jet printing has affected the textile industry

The Complete Guide to Designing and Printing Fabric

Years of human ignorance has diminished our natural resources and aged our planet. Now, people are making an effort to change the way they are treating the planet. Being more environmentally conscious about the impact materials used for fashion have on our planet is one-way designers can reduce waste and help enable a better world. By going eco-friendly can be less harmful to our natural resources. Not all fashion is following this eco-friendly trend, but more designers are embracing the trend toward eco-fashion than ever before. If the entire fashion industry became eco-friendly, it would make a huge difference for future generations because the fashion industry employs over a billion people globally. There is need for eco-friendly wet processing that is sustainable and beneficial methods. Number of sustainable practices has been implemented by various textile processing industries such as Eco- friendly bleaching; Peroxide bleaching; Eco-friendly dyeing and Printing; Low impact dyes; Natural dyes; Azo Free dyes; Phthalates Free Printing. There are a variety of materials considered "environmentally-friendly" for a variety of reasons. The industry is desperately in the need of newer and very efficient dyeing/finishing and functional treatments of textiles. There is growing awareness and readiness to adapt new perspective on industrial upgradation of Cleaner Production Programme, such new technologies help enterprises achieve green production and cost reduction at the same time. Green Production has become necessary for enterprises under the upgrade and transformation policy. The book Eco-Friendly Textile Dyeing and Finishing covers topics in the area of sustainable practices in textile dyeing and finishing.

Hand Dyed

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

Fundamentals and Practices in Colouration of Textiles

This book contains the industrial experiences of 25 years working in various dye

house of corporate production houses in India and abroad by the author. It deals in details the various types of fibre dyeing, yarn dyeing, fabric dyeing and garment dyeing with process parameters and dyeing cycle of polyester, cotton, acrylic and viscose dyeing.The main chapters are subdivided into sub chapters dealing with all the details of dyeing. Different machines used for textile dyeing are also included along with diagrams. This book will be interesting for textile degree and diploma students and researchers and supervisors and dyeing head working in various industries. The language used is very simple and easy to grasp.

Mastering the Art of Fabric Printing and Design

Beginning with studio practices and safety rules, this information-packed handbook is appropriate for both newcomers and experienced dyers but assumes that readers have a serious interest in textile design. An overview of dyeing starts with fibers and fabrics and discusses all aspects of the dyes favored by textile studios--fiber reactive, acid, vat, and disperse--before explaining discharging, screen printing, monoprinting, stamping, stenciling, resist dyeing, devore, and painting. Would-be fabric artists are advised along the way to identify a personal approach to dyeing--free spirit? rule-follower?--and color photographs of work by today's top fiber artists elucidate prevailing styles. Recipes and techniques are accompanied by step-by-step instructions with photographs, and a concealed spiral binding allows the book to lie flat. Ten appendices include a worksheet for recording chemicals, procedures, and costs for all projects; a guide to washing fabric; descriptions of stock solutions, thickeners, and steaming; a metric conversion table; and a guide to water temperatures.