The Complete Technology Book on Textile Spinning, Weaving, Finishing and Printing (4th Revised Edition)

Author:- NIIR Board of Consultants & Engineers
Format: paperback
Code: NI107
Pages: 528
Price: Rs.1875**US$** 150
Publisher: NIIR PROJECT CONSULTANCY SERVICES
Usually ships within **5** days

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.

26.5 Disperse Dyes

26.5.1 Fixation with Aliphatic Alcohols, Amines, or Aminoalcohols

26.6 Azo Dyes Having Substituted 2,6-Diaminopyridine Coupling Component

26.7 Acylating Cellulose Fibers

27. Mixed Fibers

27.1 Polyester and Wool

27.1.1 Tone-in-Tone Dyeing of Polyester-Wool Blend

27.2 Cellulosics and Synthetic Polyamides

27.2.1 Marked Reactive Dyestuff

27.3 Swellable Cellulosics And Synthetics

27.3.1 Ethoxylated Condensate of Monocarboxylic Acid and Hydroxyalkylamine

27.4 Water-Soluble Solvent and Swelling Agent

27.5 Disazo Dyes Derived from Amino-Pyrazole

27.6 Unformed Disperse Dye and Swelling Agent

27.7 Cellulosics and Synthetics

27.7.1 Unformed Disperse Dye with Reactive Dye

27.8 Textile Treated with Epoxy-Group-Containing Compounds

27.9 Impregnation with an Aqueous Composition

27.10 Blends of Natural and Synthetic Fibers

27.10.1 Aqueous Composition of Disperse and Reactive Dyestuffs

28. Plant Layout Description of Textile Printing Industry

29. BIS Standards

30. Plant Layout and Process Flow Chart & Diagram

31. Photographs of Plant and Machinery with Suppliers Contact Details

- Double Roller Gin Machine
- Carding Machine
- Weaving Machine

- Airjet Weaving Machine
- Knitting Machine
- Circular Knitting Machine
- Rapier Loom
- Air Jet Loom
- Water Jet Loom
- Needle Loom Machine
- Textile Printer
- Textile Testing Equipment
- Dyeing Jigger
- Yarn Dyeing Machinery
- Textile Washing
- Spinning Machine
- Cone Winding Machine
- Cut and Loop Tufting Machine
- Speed Frame
- Comber
- Multi Cage Screen Stretching Machine

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Our Detailed Project report aims at providing all the critical data required by any entrepreneur vying to venture into Project. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.

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Sat, 17 May 2025 08:53:33 +0000