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The Complete Technology Book on Textile Processing with Effluent Treatment

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Description

Textile manufacturing is a major industry, it is based in the conversion of three types of fibre into yarn, then fabric, then textiles. These are then fabricated into clothes or other artefacts. Cotton remains the most important natural fibre, so is treated in depth. There are many variable processes available at the weaving and fabric forming stages coupled with the complexities of the finishing and colouration processes to the production of wide ranges of products. Certain other fiber properties increase its value and desirability in its intended end use but are not necessary properties essential to make a textile fiber. Such secondary properties include moisture absorption characteristics, fiber resiliency, abrasion resistance, density, luster, chemical resistance, thermal characteristics, and flammability. Some primary properties of textile fibers are: fiber length to width ratio, fiber uniformity, fiber strength and flexibility, fiber extensibility and elasticity, and fiber cohesiveness. Some, mostly larger, firms operate in the organized sector where firms must comply with numerous government labour and tax regulations. Most firms, however, operate in the small scale unorganized sector where regulations are less stringent and more easily evaded. The textile industry occupies a unique place in our country. One of the earliest to come into existence in India, it accounts for 14% of the total Industrial production, contributes to nearly 20% of the total exports. Being the largest foreign exchange earner, it accounts for more than 5 per cent of GDP.

This book majorly deals with characteristics of cotton textile processing, characteristics of effluents, characteristics and treatment of synthetic, textiles processing effluents, processes, volume and characteristics of effluents, treatment, the properties of textile fibres, important properties of fibres, basic aspects of textile fibres etc.

The book covers complete details of textile processing with the standard parameters of effluents treatment which is the burning problem for the textile processors. Needless to say that this book will be of immense use to textile processors, consultants and chemists engaged in water and waste water treatment, research institutions etc.

Content

1. Characteristics of Cotton Textile Processing

Characteristics of Effluents

Sizing (Slashing)

Desizing

Scouring

Bleaching

Mercerizing

Dyeing

Printing

Final Finishing

Combined Effluent

Treatment

Desizing

Scouring

Bleaching

Mercerizing

Dyeing

Printing

Combined Effluent

Primary Treatment

Secondary Treatment

Tertiary Treatment

2. Characteristics and Treatment of Synthetic

Textiles Processing Effluents

Processes, Volume and Characteristics of Effluents

Treatment

3. Characteristics and Treatment of Woollen Textile

Processing Effluents

Processes, Sources and Characteristics of Effluents

Raw Wool Scouring

Weaving & Finishing Operations

Characteristics of Scouring Effluents

Characteristics of Effluents from Weaving &

Finishing Operations

Effects of Effluents

Treatment of Wool Processing Effluents

Primary Treatment

Secondary Treatment

Tertiary Treatment

Recovery of Valuable Materials from Woollen

Processing Effluent

4. Color Removal

5. Recovery and Reuse of waste Water

6. Conservation and Reuse of Water

7. Melt Spinning

Associated Apparatus

Spinneret Assembly producing Plug Flow

Multifilamentary Yarns of Uniform Quality

Filament Manufacturing Device of Small Height

Filaments and Fibers Having Discontinuous Cavities

Spinning Pack Filter

Polyesters

Highly Oriented Undrawn Yarn

Multifunctional Chain Branches

Transfer System Between Melt Source and Spinning Position

Enhanced Dyeability and Thermal Stability by

High Speed Spinning

Deep-Dyeing Textured Yarn Spun at High Speed

High Speed Production of Preoriented Yarn

Vinyl Copolymer to Reduce Pilling

Anti-Pilling Filaments with High Tenacity and

low Knot Tenacity

Low carboxyl Polyester Fibers Using Alkali

Metal salt as catalyst

Antistatic Polyether-Polyester Block Copolymer

Process for Textured Yarn

C-Shaped Filaments

Nylons

Polycaproamide Reacted with Cyclic Tetracarboxylic

Acid Dianhydride

Polypyrrolidone with Alkylamines for Improved

Extrudability

Nylon 66 Spinning Process
Magnesium Oxide Incorporated into Polycaprolactam
Trilobal Filaments
High Speed Spinning of Polyamides
Acrylics
Acrylonitrile/Styrene/Isobutylene Copolymer Needing
No After-Stretch
Extrusion of a Single Phase Melt of Polyacrylonitrile
and Water
Other Polymers
Polyethylene Oxide Monofilament
Nylon Modified Phenolic Resin Fiber
Nonwoven Webs
Reinforced Matting
Webs of Continuous Thermoplastic Filaments
Continuous Production of Tubular Modular Filter Elements
Bonded, Low Density Matting
Wet Lay Process
Coatings and Finishes
Fiber Finishes
Stabilized Silicone Oil Coating for Melt Spinning Nozzles
8. Dry Spinning
Acrylics and Modacrylics
Bifilar Acrylic Fibers
Modacrylics with Improved Coloristic Properties
Removal of Residual Solvent
Cellulosics
Manufacture of Viscose Filaments
Cellulose spun into Ammonia Atmosphere
Other Polymers
Polypyrrolidone
Halogenated Aromatic Polyesters
Flame Retardant Melamine
Protein Fibers
Associated Apparatus
Dry Spinning Pack Assembly
Static Mixing Apparatus
9. Wet Spinning
Acrylics and Modacrylics
Reduction of Voids in Wet-Spun Acrylic Fibers

Acrylic Fibers Free from Delustering
Improved Hot/Wet Properties
Flame-Retardant Acrylics
Modacryl Filaments with Permanent Brilliance and
Transparence
Cellulose and Starch
Rayon Fibers Containing Starch
Continuous Process for Viscose Yarn
Water-Insensitive Starch Fibers
Polyamides and Other Nitrogen-containing Polymers
Production Arylamides with Recovery of Amide Solvent
Air Gage Arylamide Spinning Process
Reduced Salt Content in Arylamide Fibers
Neutralization of Polyamide Spin Dope
Fibers from Anisotropic Dopes of Aromatic Polymers
Arylene Oxadiazole/Arylene N-Alkylhdrazide
Copolymer Fibers
Aromatic Oxadizole Polymers and Copolymers
Vinyls
Recovery and Recycle of Salt Solution in Vinyl Polymer
Spinning
Lithium Halides as Solvents for Polyhydroxymethylene
10. Computers in Textile Manufacturing
Computer - Aided Design (CAD) systems
Computer - aided manufacturing
Computer - aided design
Computer - aided process planning
Mechatronics and information engineering
Computer - Aided Logistic Support (CALS)
Development of LAN system
Network controller
11. The Properties of Textile Fibres
Important properties of fibres
Fibre shape and strength of yarns
Fibre extensibility
Softness
Plasticity and thermoplasticity
Lustre
Fibre density
Solubility in various solvents

Affinity for dyes

Fibre structure

The special properties of synthetic fibres

12. Basic Aspects of Textile Fibres

Filament and staple

Yarn

Fabrics

Woven fabrics

Knitted fabrics

Lace and net fabrics

Braided fabrics

Felt fabrics

Bonded fibre fabrics

Textile mills

Woven textile fabrics

Cotton

Wool

Silk

Rayon

Acetate

Nylon

Vinyon

Mohair

Linen

Glass fibres

Dacron

Orlon

Vicara

Yarns for weaving

13. Structure and Properties of Textile Fibres

Fibre structure

Properties of synthetic fibres

14. Textile Weaving

Plain Weave

Twill Weaves

Effect and flush

Satin Weaves

Basket and rib weaves

Weave Combinations

Face and back of fibres

Knitted Fabrics

Colouring

Braiding

Lace

Nonwoven fabrics

Bonded Fabrics

Automatic weaving machine

3-D weaving processes

15. Textile Wet Processes

Cotton Textiles

Sizing (Slashing)

Desizing

Scouring

Bleaching

Mercerizing

Dyeing

Printing

Finishing

Synthetic Textiles

Wool Processing

Wool Scouring

Wool fulling

Wool Carbonizing

Water Usage

Data Processing Block

16. Printing Processes

Fixation

Fixation with Vapor of Organic Solvent

Dyestuffs for Methylene Chloride Fixation Processes

Improved Fixation of Reactive Dyes on Cellulose Fibers

Treatments of Cellulosics

Crosspadding or Overprinting Impregnated Cellulose

Materials

Basic Dyes and Simultaneous Crosslinking

Printing and Simultaneous Finishing

Other Treatments

Addition of Lactone for pH Adjustments

Sodium Hydrosulfite Aftertreatment of Aromatic

Polyesters

Improved Pretreatment and Aftertreatment for Optimum

Handle

Aftertreatment with Surfactant and Reductonate

Coloration of Aromatic Polyester or Cellulose Triacetate

Special effects

Continuous Process for Two-Color Effect on Blends

Double-Surface Multicolor Printed Cloth

Double Face Printing of Polyester Fabrics

Well - Defined Multicolor Patterns on Porous Substrates

Polymer - Printed Fabric Having Differential Dyeing

Characteristic

Acid Dye Mixture for Differential-Dyeing Nylons

Spotted Effect on Synthetic Fiber Materials

Resist Printing Polyesters with Acid Dyes

Discharge Effects on Prints with Disperse Dyes

Reserve Effects in Multicolor Printing

Relief Printing to Simulate Animal Skins

Camouflage Dyeings and Prints on Synthetics and Blends

Photographic Techniques

Continuous Repetitive Patterns on Piled Fabrics

Impregnation with Leuco Ester of Vat Dyestuff

Other Processes

Continuous Process for Optical Brightening and Printing

Continuous Dyeing and Printing of Piece Goods

Printing Heavy Pile Fabrics with Powder Preparations

Improved Alignment of Printed Patterns

Uniform Heat-Setting of Continuous Synthetic Filament

Groups

Voluminous Substrate Rolled Up with Foamed Dye

Continuous Printing Process by Direct Liquid Film

Transfer

Method for Printing and Flocking Simultaneously

Sprayed Carriers for Continuous Print Fixation

17. Weaving of Synthetic Yarns And Blends

Introduction

Polyester Blended Fabrics

Sizing

Pirn Winding

Weaving

Weaving of Multifilament Yarns

Commonly Used Multifilament Fabrics

Warping

Sizing

Monofilament Fabrics

18. Weaving of Certain Commercial Fabrics

Introduction

Weaving of Poplin

Wrap preparation

Weaving

Denim

Dyeing and Sizing Processes

Tyre Cord Fabric

Yarn and Fabric Particulars

Production Flow for Tyre Cord Fabric

Weaving

Weaving of Tapes

Tubular Cloth

Weaving of Aramide (Kevlar) yarns

Characteristics of Aramides

Ranges of Application of Kevlar Fibres

Basic Requirements

Warping

Sizing

Weaving

19. Weaving and Fabric Engineering Calculations

Introduction

Conversion Tables

Yarn Numbering System

SI Units recommended for Textiles

Folded Yarns

Average Count

Weight of a Piece of Cloth

Heald Calculations

Reed Calculations

Take-Up Motion on a Plain Loom

Loom speed

Production of Looms

Efficiency

Shuttle Movement

Accelerating force of Sley

Calculation on shuttleless weaving Machines Example 33

Fractional Cover and Cover Factor

Diameter

Bulk density

Fractional Cover

Cloth Setting Rules

20. Fabric Defects and Value Loss

Grading of fabrics

Value loss

Types of Fabrics Defects

Common Fabric Defects and their causes

Bar

Box Mark

Broken Pattern

Broken Pick

Cracks

Cut weft

Defective selvages

Floats Stiches

Fuzzy

Hang Pick

Harness skip or warp skip

Lashing in or weft trail or jark in weft

Loose warp ends

Hanging threads

Missing Ends/Ends Out (chira)

Reed Marks

Shuttle Marks

Slough-off

Stains

Sticker

Tear Drop

Temple Mark

Uneven cloth

Wrong Denting

Wrong Drawing

Control of Fabric Quality at Loom State

Design Specifications

First Piece Inspection

Weaving Defects

Grey Inspection

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