

Handbook on Natural Dyes for Industrial Applications (Extraction of Dyestuff from Flowers, Leaves, Vegetables) 2nd Revised Edition

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Dyeing is the process of imparting colors to a textile material. Natural dyes are friendly and satisfying to use. They are obtained from sources like flowers, leaves, insects, bark roots etc. however, they are not readily available and involve an extraction process. With the advancement of chemical industry, all finishing procedures of textile materials have been growing constantly and, sustainable and ecological production techniques have become extremely crucial.

This is a single book which has information related to extraction of dyestuff from 19 common flowers, weeds, bark or leaves and its application on cotton silk and wool fabrics for textile industry.

The Handbook describes the step wise methodology of extraction, mordanting, dyeing with photos of the actual plants part used for extraction of Natural dye. Shade cards have been incorporated so that the full gamut of colors can be visualized from each dyestuff.

Major contents of the book are nature of material to be dyed, history of natural dyes, promotion of natural dyes, sources of natural dyes, mordanting the textiles for natural dyeing, quality standards for vegetable dyes, methods of dye extraction, dyeing methodology, chemistry of dye, some recent publications on natural dyes. This handbook is designed for use by everyone engaged in the natural dye manufacturing and explains different methods of dye extraction. Also contains addresses of machinery suppliers with their photographs.

It will be a standard reference book for professionals, entrepreneurs, those studying and researching in this important area.

About Author

The Author Dr. Padma S Vankar, works as Principal Research Scientist, in Facility for Ecological and Analytical Testing (FEAT) at Indian Institute of Technology, Kanpur. She has been engaged in the screening and characterization of newer natural dyes for the past 10 years. She also works in the area of designing synthetic strategies for Eco-friendly dyes using microwave heating system. Using innovative technology for natural dyeing has been her main emphasis. The author has conducted several workshops throughout India in order to popularize natural dyeing.

Contents

PART I

1. HISTORY OF NATURAL DYES

Promotion of Natural Dyes

Sources of Natural Dyes

Constitutional Aspects

Requisites of a True Dye

Types of Dye

Chemical Entities Responsible for Colors

Classification Based on Chemical Nature

Classification Based on Colors

Classification Based on Colors

2. BASICS OF NATURAL DYEING

Advantages of Natural Colors/Vegetable Dyes

Natural Dyeing Principles

1. Nature of Material to be Dyed

2. Measurements of Mordants and Dyestuffs

3. Temperature

4. Agitation

5. Natural Dyes are Unpredictable

6. Wet Fibers Look Darker

7. Rinsing

8. Using Natural Dyes

Mordanting

Mordants

Mordanting of Cotton

Preparation of Fabric for Dyeing

Modifier

pH

Safety Measures Required in Natural Dyeing

Disposal of Mordants and Dyes

Vat Dye

Overdyeing

3. MORDANTING THE TEXTILES FOR NATURAL DYEING

Treatment of Fabric Before Dyeing

Methods of Mordanting

Common Mordants used in Natural Dyeing

4. STANDARDIZATION OF VEGETABLE DYES

Quality Standards for Vegetable Dyes

5. METHODS OF DYE EXTRACTION

Methodology

Subcritical Water Extraction

PART II

Al

Alkanet

Balsam

Bougainvillea

Canna
Carthamus
Cassia Fistula
Cineraria
Cosmos
Eucalyptus Bark
Osbeckia Chinensis
Parkia Javanica
Pomegranate
Sappan Wood
Tectona Grandis
Terminalia Arjuna
Tulsi

6. DYEING METHODOLOGY

Materials

Selection of Plant Sources for Dye Extraction

Extraction of Colorants

Aqueous Extraction

Solvent Extraction

Equipment used for Dyeing and Analysis of Dyed Fabric and their Principle

Sonicator

Ultraviolet and Visible Spectrophotometer

Fourier Transform Infra Red Spectroscopy

Gas Chromatograph Mass Spectrometer

Inductively Coupled Plasma Optical Emission Spectrometer

Gas Chromatograph

Xenoster

Wash Wheel

Perspirometer

Crock Meter

Material to be Dyed

Specification of the Fabric

Physical Characteristic of Cotton

Chemical Composition of Cotton Fiber

Chemicals and Reagents Used

Methodology

Preparation of Cloth For Dyeing

Desizing

Scouring

Bleaching

Treatment of Fabric Before Dyeing

Pre Mordanting

Post Mordanting

Dyeing

Assesments Of Eco Friendliness

Assessment Of Antimicrobial Properties

7. CHEMISTRY OF DYE

Basic Concept of Dyes Color

Relation Between Color and Constitution

Characterization of Natural Dyes

Solubility Studies

1. Thin Layer & Column Chromatographic Studies
2. Ultra Violet-visible Spectrophotometric Studies
3. Fourier Transform “ Infra-red Studies
4. High Performance Liquid Chromatographic Studies
5. Gas Chromatography–Mass Spectrophotometric Studies

Mordants used in Dyeing

Mordant

Tannins and Tannic Acid

Metal Salts or Metallic Mordants

Oil Mordants

Techniques used for Dyeing

Mechanism of Dyeing

Fastness Properties

Fastness Properties of Dyed Materials

Evaluation of Eco-friendliness

Companies Selling through Natural Dyes through Internet

Estimates of Dye Requirements

Some Important Natural Dyes

Blue Dyes

Red Dyes

Yellow Dyes

8. SOME RECENT PUBLICATIONS ON NATURAL DYES BY THE AUTHOR

1. Dyeing Cotton, Silk and Wool with Brassica Oleracea or Purple Cabbage

Introduction

Vegetable Chosen

Studies on Cotton, Silk and Wool

Chemicals Used

Nature of the Colorant

Extraction of Colorant

Optimization of Extraction Condition

Extraction Amount and Time Required

Extraction Temperature

pH of Extraction Medium

Mass to Liquor Ratio

Determination of pKa

Chemical Characterization of the Colorants

Treatment of Fabric before Dyeing

Dyeing

Color Measurements

Results and Discussion

References

2. Dyeing Wool Yarn with Hibiscus Rosa Sinensis (Gurhhal)

Abstract

Introduction

Materials and Methods

Materials

Flower Color Chosen

Studies on Wool

Chemicals Used

Methods

Extraction of Colorant

Scouring of Wool

Mordanting
Dyeing
Measurement of Color Strength
Chemical Composition of the Colorant
Results and Discussion
Optimization of Mordants with K/S and Color Hue Changes
Fastness Properties
Conclusion
References

3. Sonicator Dyeing Cotton and Silk with Ixora Coccinea Flower

Abstract
Keywords
Introduction
Materials and Methods
Materials
Flower Color Chosen
Substrates
Chemicals
Methods
Extraction of Colorant
Preparation and Optimization of Aqueous Extract of Ixora
Chemical Composition of the Colorant
Scouring of Cotton and Silk
Mordanting
Dyeing
Measurement of Color Strength
Optimization of Mordants with K/S and Color Hue Changes
Results and Discussion
Fastness Properties
Conclusion
References

4. Dyeing with Celosia Cristata Flower on Modified Pretreated Wool

Introduction
Flower Colour Chosen
Studies on Wool
Chemicals Used
Extraction of Colourant
Pretreatment
Mordanting
Dyeing
Chemical Composition of the Colorant
Results and Discussions
References

5. Dyeing Silk and Wool with Plumeria(Pink) Flower

Abstract
Keywords
Introduction
Materials and Methods
Materials
Flower color chosen
Substrates
Chemicals
Methods

Extraction of colorant
Preparation and Optimization of Aqueous Extract of Pink Plumeria
Chemical Composition of the Colorant
Scouring of Cotton, Silk and Wool
Mordanting
Dyeing
Sonicator Dyeing
Measurement of Color Strength
Optimization of Mordants with K/S and Color Hue Changes
Results and Discussion
Fastness Properties
Conclusion
References
6. Dyeing Cotton, Silk and Wool with Cayratia Carnosa Gagn. or Vitis Trifolia
Introduction
Fruits Chosen
Studies on Cotton, Silk and Wool
Chemicals Used
Extraction of Colorant
Pretreatment
Mordanting
Dyeing
Chemical Composition of the Colorant
Measurement of Color Strength
Fastness Properties of Dyed Fabrics
Results and Discussions
References
7. Dyeing with Nerium Oleander Flower on Pretreated Wool
Introduction
Materials and Methods
Materials
Flower Color Chosen
Studies on Wool
Chemicals Used
Methods
Extraction of Colorant
Scouring of Wool
Mordanting
Dyeing
Measurement of Color Strength
Chemical Composition of the Colorant
Results and Discussion
Fastness Properties
Conclusion
References
8. Dyeing Terricot and Cotton Fabric with Lac Dye in Sonicator
Abstract
Introduction
Extraction
Dyeing Properties of Lac Dye
Results and Discussion
References
9. Commercial Viability of Dyeing Cotton with Aqueous Extract of Lawsonia (Heena) Using Ecofriendly

Mordants
Introduction
Materials and Methods
Fastness Testing
Dyeing Cost
Results and Discussion
For Eco-friendliness
Pesticides
Characterisation of Eco-Friendliness
Conclusion
References
10. Photographs of Machinery with Supplier's Contact details

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