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Direct Dyes And Their Application Infohouse ***2021-12-15***

DUKE MAYS

Fundamentals of Natural Fibres and Textiles Taylor & Francis Handbook on Manufacture of Acetophenone, Alcohols, Alletrhin, Anthracene, Barium Potassium Chromate Pigment, Calcium Cyanamide, Carboxymethylcellulose, Carotene, Chlorophyll, Chemicals from Acetaldehyde, Fats, Milk, Oranges, Wood, Manufacture of Dye Intermediates and Dyes, Fine Chemicals, Formaldehyde, Granulated Fertilizers, Granulated Triple Superphosphate and Hydroquinone (Also Known As Modern Technology of Industrial Chemicals) Industrial chemicals are essential components of modern societies because they contribute in numerous ways to establish and/or preserve an elevated standard of living in countries at all stages of development. Chemicals play an important part in different fields such as healthcare, food production and telecommunications. Under certain conditions, the large scale production and use of certain chemicals may result in the degradation of our environment and adverse impact to human health and wildlife. Acetophenone is the simplest aromatic ketone organic compound and it has a sweet taste and smell that resembles that of oranges. It is used for various purposes in the industry. Acetophenone is a colorless liquid with a sweet pungent taste. Alcohols are one of the most important molecules in organic chemistry. They can be prepared from many different types of compounds, and they can be converted into many different types

of compounds. The allethrins are a pair of related synthetic compounds used in insecticides. They are synthetic pyrethroids, a synthetic form of a chemical found naturally in the chrysanthemum flower. Acetaldehyde is a key raw material in the production of a wide range of chemical products such as paint binders in alkyd paints and as a plasticizer for plastics. Acetaldehyde is also used a base in the manufacture of acetic acid, another platform chemical with many applications. Acetaldehyde is also used as an aromatic agent and is found naturally in fruits and fruit juices. Formaldehyde, also known as methanal, is a colorless and flammable gas that has a pungent smell and is soluble in water. Formaldehyde is used in Circuit Board Manufacture, Laboratory Chemicals, Paper Coatings, Photochemicals, Printed Circuit Board Manufacturing and Rubber Manufacture. Hydroquinone is a Melanin Synthesis Inhibitor. Hydroquinone is mainly used in photosensitive materials, rubber, dyes, pharmaceutical industry. The Indian chemical industry is an integral component of Indian economy, contributing around 6.7 per cent of the Indian GDP. With Asia’s growing contribution to the global chemical industry, India emerges as one of the focus destinations for chemical companies worldwide. This book will be a mile stone for its readers who are new to this sector, will also find useful for professionals, entrepreneurs, those studying and researching in this important area. TAGS Production of Acetophenone, Manufacturing of Industrial Chemicals, Process for Preparing Acetophenone, Acetophenone Manufacturing Company, Acetophenone Manufacture, Organic Compound, Process for Producing Acetophenone, Acetophenone Production, Industrial Chemical Manufacturing Unit, Production of Industrial Alcohols, Industrial Alcohol Production, Manufacture of Industrial Alcohols, Industrial Alcohol Manufacturing, Industrial Alcohol Manufacturing Industry, Commercial Production of Alcohol for Industrial Purposes, How is Industrial Alcohol Made? Industrial Alcohol Manufacture, Industrial Alcohol Plant, Production of Anthracene, Process for Production of Anthracene, Anthracene Production, Calcium Cyanamide Production, Production of Calcium Cyanamide, Calcium Cyanamide Manufacture, Production of Carboxymethyl Cellulose, Carboxymethyl Cellulose Production, Production of Carboxymethylcellulose (CMC), Manufacture of Carboxymethylcellulose, Production of Fine Chemicals, Fine Chemicals Manufacturing, Fine Chemicals Manufacture, Fine Chemicals Manufacturing Company, Manufacturing of Fine Chemicals, Fine Chemicals Industry, Formaldehyde Production and Manufacturing Process, Formaldehyde Production Process, Production of Formaldehyde, Formaldehyde Manufacturing Process, Formaldehyde Production, Process for Production of Formaldehyde, Formaldehyde Plant, Formaldehyde Manufacturing Plant, Formaldehyde Plant Cost, Formaldehyde Production in India, Granular Fertilizers Production, Production of Granular Fertilizers, Granular Fertilizer Manufacturing Process, Making of Granular Triple Superphosphate, Production of Granular Triple Super Phosphate, Granular Triple Superphosphate Production Process, Production of Hydroquinone, Process for Producing Hydroquinone, Manufacturing Process of Hydroquinone, Manufacture of Hydroquinone, Chemical Production Process, Chemical Manufacturing Industry, Chemical Manufacturing Business, How to Start a Chemical Manufacturing Industry, Industrial Chemical Manufacture, Chemical Formulation

Company, Industrial Chemical Manufacturing Plant, Industrial Chemical Manufacturing Project Ideas, Projects on Small Scale Industries, Small Scale Industries Projects Ideas, Acetophenone Manufacturing Based Small Scale Industries Projects, Project Profile on Small Scale Industries, How to Start Industrial Chemical Manufacturing Industry in India, Acetophenone Manufacturing Projects, New Project Profile on Acetophenone Manufacturing Industries, Project Report on Acetophenone Manufacturing Industry, Detailed Project Report on Fine Chemicals Manufacturing, Project Report on Fine Chemicals Manufacturing, Pre-Investment Feasibility Study on Acetophenone Manufacturing, Techno-Economic Feasibility Study on Fine Chemicals Manufacturing, Feasibility Report on Industrial Chemical Manufacturing, Free Project Profile on Formaldehyde Production, Project Profile on Fine Chemicals Manufacturing, Download Free Project Profile on Formaldehyde Production, Industrial Project Report, Project Identification and Selection, Startup Project for Industrial Chemical Manufacturing

Handbook of Renewable Materials for Coloration and Finishing Royal Society of Chemistry

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

Handbook of Engineering Hydrology AATCC

This book provides an up-to-date insight into the chemistry behind the colour of the dyes and pigments that make our world so colourful. The impressive breadth of coverage starts with a dip into the history of colour science. Colour Chemistry then goes on to look at the structure and synthesis of the various dyes and pigments, along with their applications in the traditional areas of textiles, coatings and plastics, and also the ever-expanding range of "high-tech" applications. Also discussed are some of the environmental issues associated with the manufacture and use of colour. The broad and balanced coverage presented in this book makes it ideal for students and graduates. In addition, many specialists in industry or academia will also benefit from the overview of the subject that is provided.

Dyes and Their Application to Textile Fabrics AATCC

The textile industry is focused in its search for alternative green fibres with the aim of providing high-quality products which are fully recyclable and biodegradable. Natural textile materials from

renewable sources play an increasingly important role in the industry due to their unique properties and functionality over synthetic fibres, as well as their sustainability. Fundamentals of Natural Fibres and Textiles covers all the fundamental and basic information about natural fibres and textiles. Many different fibres are covered from their origin, through processing, properties, and applications. The latest methods for characterisation and testing of natural fibres are all addressed with reference to cutting-edge industry trends. This uniquely comprehensive approach to the topic provides the ideal entry point to natural fibres for textile and clothing scientists, engineers, designers, researchers, students, and manufacturers of such products. Explains the characteristics of natural fibres to show how they compare to synthetic fibres for a range of purposes Provides an overview of the environmental impact of the processing of fibres and how this creates industrial waste Covers a wide range of natural fibres in detail, from traditional silk and wool to electrospun biopolymers Provides the latest updates on technologies for designing natural fibres and applying them to the development of new products

The Coloration of Wool and Other Keratin Fibres CRC Press

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 Academic Press

This book will be useful for degree & diploma Curriculum of Engineering and for various associate membership examinations conducted by professional bodies like Institution of Engineers(AMIE) and Indian Institute of chemical Engineers (AMIIChE) etc. Salient Features of This Book * Subject matter has been presented in simple, lucid & easy to understand language * Covers all the topics included in the syllabus of various engineering colleges/Technical Institutes & professional bodies examination papers.

Environmental Hydrology and Water Management John Wiley & Sons

This volume provides in-depth coverage of environmental pollution sources, waste characteristics, control technologies,

management strategies, facility innovations, process alternatives, costs, case histories, effluent standards, and future trends in waste treatment processes. It delineates methodologies, technologies, and the regional and global effects of important pollution control practices. It focuses on specific industrial and manufacturing wastes and their remediation. Topics include: heavy metals, electronics, chemical, and textile manufacturing.
An Introduction to Textile Coloration NIIR PROJECT CONSULTANCY SERVICES
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
Applications of Dyes John Wiley & Sons
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.
A Handbook of Dyes, Stains and Fluorochromes for Use in Biology and Medicine CRC Press

This volume provides in-depth coverage of environmental pollution sources, waste characteristics, control technologies, management strategies, facility innovations, process alternatives, costs, case histories, effluent standards, and future trends in the process industries. It delineates methodologies, technologies, and the regional and global effects of important pollution control practices. The authors focus on new developments in innovative and alternative technologies, design criteria, effluent standards, managerial decision methodology, and regional and global environmental conservation specific to process industries.

Principles and Practice John Wiley & Sons

The production of textile materials comprises a very large and complex global industry that utilises a diverse range of fibre types and creates a variety of textile products. As the great majority of such products are coloured, predominantly using aqueous dyeing processes, the coloration of textiles is a large-scale global business in which complex procedures are used to apply different types of dye to the various types of textile material. The development of such dyeing processes is the result of substantial research activity, undertaken over many decades, into the physico-chemical aspects of dye adsorption and the establishment of ‘dyeing theory’, which seeks to describe the mechanism by which dyes interact with textile fibres. Physico-Chemical Aspects of Textile Coloration provides a comprehensive treatment of the physical chemistry involved in the dyeing of the major types of natural, man-made and synthetic fibres with the principal types of dye. The book covers: fundamental aspects of the physical and chemical structure of both fibres and dyes, together with the structure and properties of water, in relation to dyeing; dyeing as an area of study as well as the terminology employed in dyeing technology and science; contemporary views of intermolecular forces and the nature of the interactions that can occur between dyes and fibres at a molecular level; fundamental principles involved in dyeing theory, as represented by the thermodynamics and kinetics of dye sorption; detailed accounts of the mechanism of dyeing that applies to cotton (and other cellulosic fibres), polyester, polyamide, wool, polyacrylonitrile and silk fibres; non-aqueous dyeing, as represented by the use of air, organic solvents and supercritical CO2 fluid as alternatives to water as application medium. The up-to-date text is supported by a large number of tables, figures and illustrations as well as footnotes and widespread use of references to published work. The book is essential reading for students, teachers, researchers and professionals involved in textile coloration.

Dyestuffs Fundamentals and Practices in Colouration of Textiles

Keratin fibres, particularly wool fibres, constitute animportant natural raw material in textiles due to their comfort andthermal proprieties. Wool coloration demands an understanding ofthe complex nature of the interplay between wool fibre chemistry,morphology and the coloration processes. The Coloration of Wool and other Keratin Fibres is acomprehensive treatment, written by leading international experts,of the chemistry and chemical processes involved in wool dyeing,printing, preparation and finishing. The book covers: the chemical and physical structure of wool keratin fibres,detailing their complex heterogeneity and the subtle links betweenfibre structure and dyeability the coloration of fabrics containing wool,

including a varietyof wool blends such as wool/silk, wool/polyester and wool/cotton,and luxury keratin fibres such as mohair, cashmere and camel the chemistry of the various types of dyes utilised in wooldyeing and in-depth discussions on the physical properties tooptimise these processes practical application of dyes to wool in all its forms, loosestock, combed tops, yarns and piece goods, is covered in thechapter on wool dyeing machinery two chapters, one on bleaching and whitening and one on dyeinghuman hair, provide a valuable extension to the topic of cosmeticchemistry The Coloration of Wool and other Keratin Fibres isessential reading for professionals world-wide working in companiesinvolved in the dyeing and printing of wool, wool blends and otherkeratin fibres and also for the producers of dyes and auxiliarydyeing agents. It is a valuable resource for teachers and studentsof universities and technical institutes, as well as forresearchers who are focusing their investigations on wool, woolblends, human hair or dyes and auxiliaries. Published in partnership with the Society of Dyers andColourists (SDC). Find out more at
ahref="http://www.wiley.com/go/sdc"www.wiley.com/go/sdc/a
Textile Engineering KHANNA PUBLISHING HOUSE
A natural or synthetic substance used to add a color or to change the color of something. Dyes are the coloring material that color commodities of our day to day use. Dyes are applied everywhere, from Plastic toys for children to that fabrics you wear, from food to wood; hardly there is any industry where dyes are not used commercially. A dye is a colored substance that has an affinity to the substrate to which it is being applied. It is an ionising and aromatic organic compounds. The dye is generally applied in an aqueous solution, and may require a mordant to improve the fastness of the dye on the fiber.Apart from this, Dye Intermediates also serve as an important raw materials for the Acid, Reactive and Direct Dyes. Increase in demand for dye intermediates in textile and extensive use of dye intermediates are some factors driving the dye intermediates market. This is prompting companies to increase production of dye intermediates. Additionally, easy availability of raw materials is anticipated to boost the demand for dye intermediates in the near future. The global dye intermediates market is witnessing technological advancements. Companies are constantly striving to develop new and better ways to manufacture dye intermediates. Development of new manufacturing processes of dye intermediates and applications is estimated to propel the dye intermediates market. However, volatility in prices of raw material is projected to inhibit the market. The major contents of the Book are Azo Dyes, Reactive Dyes, Anthraquinone Dyes, Acid Dyes, Basic Dyes, Sulfur Dyes, Cyanine Dyes, Sensitizing Dyes, Dye Intermediates, BIS Specifications, Photographs of Machinery With Suppliers Contact Detail, Plant Layout and Process Flow Chart & Diagram. A total guide to manufacturing and entrepreneurial success in one of today’s Dyes & Dye Intermediates industry. This book is one-stop guide to one of the fastest growing sectors of Dyes & Dye Intermediates industry, where opportunities abound for manufacturers, retailers, and entrepreneurs. This is the only complete handbook on Dyes & Dye Intermediates. It serves up a feast of how-to information, from concept to purchasing equipment.
Industrial Dyes John Wiley & Sons

Textile Dyes has its each chapter simplified into the major classes of dyes. The author has dealt with the history, manufacturing, properties, identification, stripping, testing and application of dyes. The book is written in a very simple, lucid manner.

Color Vision & Technology Elsevier

This unique handbook provides a vivid multidisciplinary dimension through technological perspectives to present cutting-edge research in the field of natural coloration and finishing. The 20 chapters are divided in to four parts: Substrates for coloration and finishing; renewable colorants and their applications; advanced materials and technologies for coloration and finishing; sustainability. Among the topics included in the Handbook of Renewable Materials for Coloration and Finishing are: The systematic discussion on the suitability, physical, chemical and processing aspects of substrates for coloration and finishing Bio-colorant's application as photosensitizers for dye sensitized solar cells Animal based natural dyes Natural dyes extraction and dyeing methodology Application of natural dyes to cotton and jute textiles Sol-gel flame retardant and/or antimicrobial finishings for cellulosic textiles Rot resistance and antimicrobial finish of cotton khadi fabrics Advanced materials and technologies for antimicrobial finishing of cellulosic textiles

Waste Treatment in the Service and Utility Industries Elsevier

What would life be like without color? Ever since one can think back, color has always accompanied mankind. Dyes - originally obtained exclusively from natural sources - are today also produced synthetically on a large scale and represent one of the very mature and traditional sectors of the chemical industry. The present reference work on Industrial Dyes provides a comprehensive review of the chemistry, properties and applications of the most important groups of industrial dyes, including optical brighteners. It also outlines the latest developments in the area of functional dyes. Renowned experts in their respective fields have contributed to the chapters on chemical chromophores, synthesis and application of the various dye classes, textile dyeing and non-textile dyeing. The book is aimed at all professionals who are involved in the synthesis, production, manufacture or application of dyes and will prove to be an indispensable guide to all chemists, engineers and technicians in dye science and industry.

Chemistry, Properties, Applications CRC Press

This is an easily-accessible two-volume encyclopedia summarizing all the articles in the main volumes Kirk-Othmer Encyclopedia of Chemical Technology, Fifth Edition organized alphabetically. Written by prominent scholars from industry, academia, and research institutions, the Encyclopedia presents a wide scope of articles on chemical substances, properties, manufacturing, and uses; on industrial processes, unit operations in chemical engineering; and on fundamentals and scientific subjects related to the field.

The Adsorption of Direct Dyes on Porous and Non-porous Solids and Its Application to Surface Area Determination ASIA PACIFIC BUSINESS PRESS Inc.

In the past, only organic matter was available for making dyes. Today, there are numerous options and methods for the colorization of textiles. While today□s methods capitalize on efficiency, there is question as to whether the use of chemicals is harmful to the environment. A reputation for harming the earth

could be detrimental to a company in a society becoming more and more focused on the environment and its preservation. Today, with the invention of synthetic materials used in textiles, many new types of dyes have been developed and put into regular use. There are two basic ways to color textiles: dyes and pigments. Pigments are not a dye but rather resins mechanically bound to fibers. Dyes are divided into classes according to the types of fibers they are most compatible with. Textile printing is related to dyeing but, whereas in dyeing proper the whole fabric is uniformly covered with one color, in printing one or more colors are applied to it in certain parts only, and in sharply defined patterns.Dyes will yield the softest hand (the "hand" is the feel of the fabric) and maintain the fabric's luster but the process is expensive. Pigments are much more economical to use. Pigments are generally more lightfast, more colorfast, and give greater color control. Pigment technology has developed tremendously in the past 15 years. 85% of the textile printing in the World is pigment printing.This book contains manufacturing process and other related details about Azine dyes, Azoic dyes, Azo dyes, Thiazole dyes, Triphenylmethane dyes, scientific classification of Vat dyes, fluorination of dyes, different types of pigments, applications, usages of dyes and pigments, quality control and evaluation of pigments and many more. This book will serve as a guide to Textile Technologists, Scientists and existing as well as upcoming industries.

Kirk-Othmer Concise Encyclopedia of Chemical Technology, 2 Volume Set John Wiley & Sons

Currently, most of the textile industry and textile institutions are located in South Asia. The textile industry leads to the development of clothing from fibres, yarns, and fabrics. The industry is growing in this area as it has already been shifted from Europe and is being shifting from China. As the textile industry is growing, many new textile intuitions are being established to provide for quality textile education. This introductory level textbooks is geared towars them. This book will provide all necessary information from fibres to fabrics and their conversion to clothing. The importance of textiles in the current era along with the raw materials needed for the textiles are given. After that, it is explained how the yarn is made from fibres. Then the fabrics manufacturing, the printing and dyeing of textiles and the conversion of fabrics into the garments is discussed. Also, the testing of fibres, yarns and fabrics along with the description of technical textiles is mentioned. This book is beneficial for all readers who are going to start their career in textiles or are going to start the engineering degree in textiles. The present book is designed for the first year students (especially for the National Textile University Faisalabad) of textile engineering.

The Complete Technology Book on Dyes & Dye Intermediates 2nd Revised Edition Elsevier

The Chemistry of Synthetic Dyes, Volume VII covers the synthesis and application of dyes, fluorescent brightening agents, color and electronic states of organic molecules, photochemistry of dyes, and physical chemistry of dyeing. This book is organized into five chapters—sulfur dyes; Bunte salt dyes; state of dye in dyebath and substrate; kinetics, equilibrium, dye-fiber affinity, and mechanisms; and applications of synthetic dyes to biological problems. This compilation specifically discusses the sulfur dyes

of known constitution, analysis of sulfur dyes, and chemistry of Bunte salts. The chemical modification of proteins and dyes as antibacterial and therapeutic agents is also treated. This volume is recommended for organic chemists and technologists interested in the synthesis of dyes and their applications.