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The Chemistry

CHAPTER 8 OBJECTIVES

INTRODUCTION COLORANTS

CLASSIFICATION OF DYES TEXTILE

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FIBERS THE APPLICATION OF
DYES INTERMEDIATES
MANUFACTURE OF DYES

Professor Bassam El Ali 11

CLASSIFICATION OF DYES Dyes
may be classified according to
their chemical structure or by the
method by which they are applied

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Chapter 8-DYES-THE CHEMISTRY AND APPLICATIONS

The chapter on analysis of dyes has been re ciples of dye chemistry to the student; and, since it was the endeavor of the

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Applications
authors to write a laboratory book
and not an encyclopedia, in 1,6-,
1,7-, and 1,8- acids by
precipitating carefully with acid,
according

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the chemistry behind the color of
the dyes and pigments that make
our world so colorful, this text
examines the history, the
structure and synthesis of various

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dyes and pigments, and some environmental issues.

Chapter 8: Reactive Dyes for Textile Fibres | Engineering360
The fiber, dye and dyebath variables which affect the batch dyeing of polyester with disperse

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dyes are discussed, as are some of the chemical properties of disperse dyes which influence the normal conditions of dye application, stripping and reduction clearing. Discussion of the continuous dyeing of polyester is deferred to a later

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chapter on dyeing
polyester/cellulosic

[PDF] Chapter 8 : Disperse Dyes
and Their Application to ...

EXAMPLE 8.1: BENZENE

EXCITATION ENERGIES. benzene.

EXAMPLE 8.2: DYES FOR SOLAR

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CELLS. DSSC device dye HOMO & LUMO for model DSSC dye.

EXAMPLE 8.3: EXCITED STATES OF $V(H_2O)_6$.

hexaaquavanadium electron density differences in hexaaquavanadium (II) dication NTOs in hexaaquavanadium (II)

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Applications. EXAMPLE 8.4: TITANIUM
OXIDE EXCITED STATES. titanium
oxide

Chapter 8 | Exploring Chemistry
3rd edition

chapter iii - physical chemistry of
dyeing: state of dye in dyebath

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Applications. e.h. daruwalla.
pages 69-113

The Chemistry of Synthetic Dyes |
ScienceDirect

Today, though, developments in
organic chemistry mean we can
synthesise a huge diversity of

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dyes and pigments, and it was estimated that the dye industry contributed £3.8 billion to GDP in 2007, while supporting 69,000 jobs. Serendipitous synthetic dye.

Organic Chemistry Contributing to
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Green Chemistry for Dyes
Removal from Wastewater:
Research ...

Biosorption of Organic Dyes:
Research Opportunities and ...
Temporary hair dyes contain azo,

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Applications
triphenylmethane, anthraquinone, or indamine dyes while semipermanent hair dyes contain nitro-phenylenediamines, nitro-aminophenols, and some azo dyes. Permanent hair dyes differ from semipermanent or temporary dyes in that

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permanent hair dyes consist of two components that are mixed before use and generate the dye on/in the hair by a chemical reaction.

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Chapter 3 Synthesis of (masked)
Michael acceptor intermediates
and groups Chapter 4

Miscellaneous aliphatic reactive
groups Chapter 5 Multifunctional
reactive dyes Chapter 6 Neutral-
fixing reactive dyes Chapter 7

Acid-fixing reactive dyes Chapter

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8 The chemistry of cellulose pre-treatment, co-treatments and after-treatments

SDC | Society of Dyers and
Colourists Reactive Dyes for ...
R. Price, The Chemistry of Metal
Complex Dyestuffs, pp. 373–383,

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in: The Chemistry of Synthetic
Dyes (K. Venkataraman, ed.), Vol.
III, Academic Press, New York and
London (1970). Google Scholar

Classification of Dyes by Chemical
Structure | SpringerLink
Chapter 7 Chemistry of reactive

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Chapter 8 Functions and properties of dyeing and printing auxiliaries Chapter 9 The chemistry and properties of surfactants Chapter 10 Classification of dyeing and printing auxiliaries by function Chapter 11 Fluorescent

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brightening agents Chapter 12
Auxiliaries associated with main
dye classes. 960 pages ...

SDC | Society of Dyers and
Colourists Colorants and ...

Victória H. Vargas, Rafael R.
Paveglio, Paola de Souza Pauletto,

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Applications
Nina Paula Gonçalves Salau, L.
Guilherme Dotto, Sisal fiber as an
alternative and cost-effective
adsorbent for the removal of
methylene blue and reactive
black 5 dyes from aqueous
solutions, Chemical Engineering
Communications, 10.1080/00986

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445.2019.1605362, 207, 4,
(523-536), (2019).

Biosorption of Organic Dyes:
Research Opportunities and ...
OVERVIEW. Azo dyes and
pigments constitute by far the
most important chemical class of

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Applications
commercial organic colorant.

They account for around 60-70% of the dyes used in traditional textile applications (see Chapters 7 and 8) and they occupy a similarly prominent position in the range of classical organic pigments (see Chapter 9). Azo

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Applications
colorants, as the name implies, contain as their common structural feature the azo ($N=N$) linkage which is attached at either side to two sp^2 carbon atoms.

Chapter 3: Azo Dyes and

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Pigments | Engineering360

28-4A Dyes. Historically, the dye industry has been closely linked with the development of synthetic organic chemistry. Although dyes have been extracted from natural sources for centuries, it was not until 1856 that a synthetic dye

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Applications commercially.

28.5: Color and Constitution -
Chemistry LibreTexts

Bauer, W. and Ritter, J., "Tailoring
Dyes for Ink-Jet Applications", in
Z. Yoshida and Y. Shirota, Editors,
Chemistry of Functional Dyes,

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Chapter 8.1, p. 649, Mita, Tokyo,
1993.

Metal- Free Synthetic Organic
Dyes is a comprehensive guide to
the synthetic, organic dyes that

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Applications are classified by their chemical structure. As synthetic dyes are playing an increasingly important role in modern life, with applications in both industry and scientific research, this book provides insights on the many research attempts that have been

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Applications
made to explore new photosensitizers in the development of dye sensitized solar cells (DSCs). These novel photosensitizers have incorporated, within their structure, different organic groups, such as coumarins,

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Applications
cyanines, hemicyanines,
indolines, triphenylamines,
bis(dimethylfluorenyl)
aminophenyls, phenothiazines,
tetrahydroquinolines, carbazoles,
polyenes, fluorenes, and many
others. This comprehensive
resource contains color figures

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Applications for each dye discussed, and is an invaluable resource for organic, inorganic and analytical chemists working in academia and industry.

Features a discussion of the synthesis of the new, high-value synthetic dyes and pigments and

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Applications and
performance Includes coverage of
new photosensitizers and their
role in the development of dye
sensitized solar cells (DSCs)
Covers synthesis of the functional
dyes that are ideal for
applications in the dye and

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Applications
pigment industry, textiles, color science, solar energy materials and solar cells, biomedical sensors, advanced materials, structure and synthesis of materials, and more

This revised and up-dated second

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Applications
edition provides a current insight into how the fundamental principles of the chemistry of colour are applied in dyes and pigments. The text has been expanded and re-written throughout, while largely maintaining the structure of the

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Applications. In particular, the chapter on functional dyes has been substantially re-written to embrace the significant developments in chemistry and technology that this area has experienced in the last decade. As industry and society have

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become increasingly sensitive towards environmental issues, the chapter describing how the colour industry has been responding is expanded to reflect this growing importance. A new chapter is introduced on colour in cosmetics, with particular

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Applications
emphasis on hair dyes, reflecting the growing international, industrial significance of this topic. This chapter is co-written with Dr Olivier Morel. Colour Chemistry will be of interest to academics and industrialists who are specialists in colour science or

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Applications
who have involvement with the diverse range of coloured materials, for example traditional application in textiles, paints, printing inks, plastics and cosmetics, and functional applications in electronics and biology. Broad and balanced in its

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Applications
coverage, this book provides an introduction to the chemistry of colour that is ideal for students, graduates and those in industry and academia seeking an introduction to the topic.

The production of textile

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Applications
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

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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,

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Applications
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

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Applications
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

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Applications
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

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Applications
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

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Applications
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

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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,

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Applications
teachers, researchers and
professionals involved in textile
coloration.

This substantially revised and
updated classic reference offers a
valuable overview and myriad
details on current chemical

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Applications, processes, products, and practices. No other source offers as much data on the chemistry, engineering, economics, and infrastructure of the industry. The two volume Handbook serves a spectrum of individuals, from those who are directly involved in

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the chemical industry to others in related industries and activities. Industrial processes and products can be much enhanced through observing the tenets and applying the methodologies found in the book's new chapters.

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Applications
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

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Applications
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

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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

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Applications
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

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Applications in dye science and industry.

Green Chemistry for Sustainable Textiles: Modern Design and Approaches provides a comprehensive survey of the latest methods in green chemistry

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Applications
for the reduction of the textile industry's environmental impact. In recent years industrial R&D has been exploring more sustainable chemicals as well as eco-friendly technologies in the textile wet processing chain, leading to a range of new techniques for

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sustainable textile manufacture.

This book discusses and explores basic principles of green chemistry and their implementation along with other aspects of cleaner production strategies, as well as new and emerging textile technologies,

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Applications
providing a comprehensive reference for readers at all levels. Potential benefits to industry from the techniques covered in this book include: Savings in water, energy and chemical consumption, waste minimization as well as disposal cost reduction,

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Applications of high added value sustainable textile products to satisfy consumer demands for comfort, safety, aesthetic, and multi-functional performance properties. Innovative emerging methods are covered as well as popular current technologies,

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Applications
creating a comprehensive
reference that facilitates
comparisons between methods
Evaluates the fundamental green
chemistry principles as drivers for
textile sustainability Explains how
and why to use renewable green
chemicals in the textile wet

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processing chain

The use of synthetic chemical dyes in various industrial processes, including paper and pulp manufacturing, plastics, dyeing of cloth, leather treatment and printing, has

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increased considerably over the last few years, resulting in the release of dye-containing industrial effluents into the soil and aquatic ecosystems. The textile industry generates high-polluting wastewaters and their treatment is a very serious

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problem due to high total dissolved solids (TDS), presence of toxic heavy metals, and the non-biodegradable nature of the dyestuffs in the effluent. The chapters in this book provide an overview of the problem and its solution from different angles.

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These problems and solutions are presented in a genuinely holistic way by world-renowned researchers. Discussed are various promising techniques to remove dyes, including the use of nanotechnology, ultrasound, microwave, catalysts, biosorption,

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Applications
enzymatic treatments, advanced oxidation processes, etc., all of which are "green." Green Chemistry for Dyes Removal from Wastewater comprehensively discusses: Different types of dyes, their working and methodologies and various physical, chemical

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Applications treatment
method employed Application of
advanced oxidation processes
(AOPs) in dyeremoval whereby
highly reactive hydroxyl radicals
are generatedchemically,
photochemically and/or by
radiolytic/ sonolytic means.The

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Applications of ultrasound as an AOP is discussed as well.

Nanotechnology in the treatment of dye removal types of adsorbents for removal of toxic pollutants from aquatic systems Photocatalytic oxidation process for dye degradation under both UV

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Applications
and visible light, application of solar light and solar photoreactor in dye degradation

Students embarking upon a colour chemistry course usually approach it by way of a general introduction and proceed to more

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Applications
detailed treatment of the subject when they have acquired some knowledge of its character and scope. This book has been written with the twofold purpose of serving as a guide to such students during the introductory part of their course and of

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supplying the needs in this field of others whose main interest is in a related branch of technology or pure chemistry. An attempt has been made to present the main features of the subject in an easily assimilable form. The great amount of published information

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renders the choice of material for a short book somewhat difficult, and I am keenly conscious of topics that might be thought worthy of more extensive treatment. However, a concise account cannot be comprehensive, and suggestions

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Applications for further reading are provided at the end of the book. The chemistry of colouring matters can be regarded as a branch of pure chemistry, but the development of knowledge in this field has followed a course determined chiefly by the

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Applications of dyes and pigments. It has therefore appeared appropriate to treat the subject here as a branch of technology.

This book provides an up-to-date insight into the chemistry behind

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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

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Applications 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

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Applications 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.

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Introduction: Our nature has abundance of colours. The Rainbow consist of seven colours e.g. VIBGYOR Leaves & Flowers have different varieties of colours & shade. In prehistoric times, man has used colouring matter

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Applications
extracted from plant and animals.
These dyes are called natural
dyes On the sources they are
classified into plants and animal
dyes

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