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Introduction. Students embarking upon a colour chemistry course usually approach it by way of a general introduction and proceed to more 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 supplying the needs in this field of others whose main interest is in a related branch of technology or pure chemistry.

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Colour Chemistry is a highly diverse subject, and can be applied to areas such as graphic design, commercial business and even medical science. As well as a means for understanding industrial sectors, colour is also a basis for human perception and affiliation with everyday reality; from clothing, to branding and even theology or divinity.

Masters Degrees in Colour Chemistry

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In recent decades, scientific insight into the chemistry of water has increased enormously, leading to the development of advanced wastewater and water purification technologies. However, the quality of freshwater resources has continually deteriorated worldwide, both in industrialized and developing countries. Although traditional wastewater technologies focus on the removal of suspended solids, nutrients and bacteria, hundreds of organic pollutants occur in wastewater and urban surface waters. These new pollutants are synthetic or naturally occurring chemicals that are not often monitored in the environment but have the potential to enter the environment and cause known or suspected adverse ecological and / or human health effects. Collectively referred to as the "emerging contaminants," they are mostly derived from domestic use and occur in trace concentrations ranging from pico to micrograms per liter. Environmental contaminants are resistant to conventional wastewater treatment processes and most of them remain unaffected, leading to the contamination of the receiving water. As such, there is a need for advanced wastewater treatment process that is capable of removing environmental contaminants to ensure safe fresh water supplies. This book explains the biological and chemical wastewater treatment technologies. The biological wastewater treatment processes presented include: (1) bioremediation of wastewater such as aerobic and anaerobic treatment; (2) phytoremediation of wastewater using engineered wetlands, rhizofiltration, rhizodegradation, phytodegradation, phytoaccumulation, phytotransformation and hyperaccumulators; and (3) mycoremediation of wastewater. The chemical wastewater treatment processes discussed include chemical precipitation, ion exchange, neutralization, adsorption and disinfection. In addition, the book describes wastewater treatment plants in terms of plant size, layout and design as well as installation location. Also presenting the latest, innovative effluent water treatment processes, it is a valuable resource for biochemical and wastewater treatment engineers, environmental scientists and environmental microbiologists.

This book is about compounds such as the boron hydrides and associated metal hydrides and alkyls which acquired the label 'electron deficient' when they were thought to contain too few valence electrons to hold together. Though they are now recognized as containing the numbers of bonding electrons appropriate for their structures, the term 'electron deficient' is still commonly applied to many substances that contain too few valence electrons to provide a pair for every pair of atoms close enough to be regarded as covalently bonded. The study of such substances has contributed much to chemistry. Techniques for the vacuum manipulation of volatile substances were devised specifically for their study; developments in valence theory resulted from considerations of their bonding; and the reactivity of several (for example, diborane and complex metal hydrides, lithium and aluminium alkyls) has made them valuable reagents. The purpose of this book is to provide an introduction to the chemistry of these fascinating compounds. The experimental and spectroscopic methods by which they can be studied are outlined, the various types of structure they adopt are described and profusely illustrated, and the relative merits of extended valence bond and simple molecular orbital treatments of their bonding are discussed, with as liberal use of diagrams and as limited recourse to the Greek alphabet as possible. A recurring theme is the importance attached to considerations of molecular symetry. Their reactions are treated in sufficient detail to show whether these reflect any deficiency of electrons.

In this brief, Mary Virginia Orna details the history of color from the chemical point of view. Beginning with the first recorded uses of color and ending in the development of our modern chemical industry, this rich, yet concise exposition shows us how color pervades every aspect of our lives. Our consciousness, our perceptions, our useful appliances and tools, our playthings, our entertainment, our health, and our diagnostic apparatus – all involve color and are based in no small part on chemistry.

At the beginning of this series of volumes on Color Chemistry, the editors pointed to a number of events that have served as stimuli for techno logical advances in the field, thus preventing dyestuff manufacturing from becoming what might otherwise be viewed by now as a 'sunset industry'. The volumes which followed have provided ample evidence for our belief that the field of colour chemistry is very much alive, though arguably in need of further stimulus. For instance, a viable approach to the design of new chromophores and to the design of metal-free acid, direct, and reactive dyes having fastness properties comparable to their metallized counterparts represent the kind of breakthroughs that would help ensure the continued success of this important field. While it must be acknowledged that serendipity 'smiled' on our discipline at its inception and has repeated the favor from time to time since then, few would argue against the proposition that most of the significant advances in the technology associated with any scientific discipline result from research designed to enhance our understanding of the fundamental causes for experimental observations, many of which are pursued because they are unexpected, intriguing and intellectually stimulating. Little reflection is required for one who knows the history of the dyestuff industry to realize that this is certainly true in the colour chemistry arena, as it was basic research that led to fiber-reactive dyes, dyes for high technology, and modern synthetic organic pigments.

This volume represents 27 peer-reviewed papers presented at the ICOP 2013 symposium which will help conservators and curators recognise problems and interpret visual changes on paintings, which in turn give a more solid basis for decisions on the treatment of these paintings. The subject matter ranges from developments of paint technology, working methods of individual artists, through characterisation of paints and paint surfaces, paint degradation vs. long time stability, to observations of issues in collections, cleaning and other treatment issues as well as new conservation approaches.

Although the research activities of dyestuff chemists worldwide have been influenced to a great extent, in recent years, by the need to respond to a variety of environmental issues associated with the manufacture and application of synthetic dyes and pigments, a significant level of targeted research continues to be devoted to new chemistry aimed at enhancing the technical properties of dyes in commerce. This book is a presentation of various aspects of basic research conducted during the past decade but not reported in the recent review literature. The coverage herein is unique in that it emphasizes systematic approaches commonly utilized in the design and synthesis of dyes and pigments and the required intermediates. While it is well known that certain transition metals are important in the synthesis of technically viable metallized dyes for polyamide and protein fibers, these metals are demonstrated in Chapter 1 also to be effective agents in the regiospecific placement of substituents into azo compounds. The scope and limitations of this chemistry are presented. In other synthetic work, a description of the different processes employed to produce the major families of reactive dyes is presented. In Chapter 4, special attention is given to reactive dyes containing more than one reactive group, and to the more recent developments in the field. The two chapters which follow provide a review of the recent literature pertaining to novel chromophores and dyes for the D2T2 process, respectively.

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