Record Nr. UNINA9910146244403321 Industrial dyes [[electronic resource]]: chemistry, properties, **Titolo** applications / / Klaus Hunger (editor) Pubbl/distr/stampa Weinheim,: Wiley-VCH, c2003 **ISBN** 3-527-60606-8 9786612118388 1-282-11838-2 1-280-56073-8 9786610560738 3-527-60201-1 Descrizione fisica 1 online resource (686 p.) Altri autori (Persone) HungerKlaus Disciplina 667.2 667.25 Soggetti Dyes and dyeing - Chemistry Dyes and dyeing - Industrial applications Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Industrial Dyes Chemistry, Properties, Applications; Contents; Preface; Nota di contenuto List of Contributors; 1 Dyes, General Survey; 1.1 Introduction; 1.2 Classification Systems for Dyes; 1.3 Classification of Dyes by Use or Application Method; 1.4 Nomenclature of Dyes; 1.5 Equipment and Manufacture; 1.6 Economic Aspects; 1.7 References; 2 Important Chemical Chromophores of Dye Classes; Introduction; 2.1 Azo Chromophore; 2.1.1 Introduction; 2.1.2 General Synthesis; 2.1.2.1 Diazo Components; 2.1.2.2 Diazotization Methods; 2.1.2.3 Coupling Components; 2.1.2.4 Azo Coupling in Practice 2.1.3 Principal Properties 2.1.3.1 Tautomerism; 2.1.3.2 Metallized Azo Dyes; 2.1.3.3 Carbocyclic Azo Dyes; 2.1.3.4 Heterocyclic Azo Dyes; 2.1.4 References: 2.2 Anthraguinone Chromophore: 2.2.1 Introduction: 2.2.2 General Synthesis; 2.2.3 Principal Properties; 2.2.3.1 Benzodifuranone Dyes; 2.2.3.2 Polycyclic Aromatic Carbonyl Dyes;

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Sommario/riassunto

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.<