1. Record Nr. UNINA9910789205503321 The Chemical Industry [[electronic resource] /] / edited by C.A. Heaton Titolo Dordrecht:,: Springer Netherlands:,: Imprint: Springer,, 1994 Pubbl/distr/stampa **ISBN** 94-011-1318-1 Edizione [2nd ed. 1994.] Descrizione fisica 1 online resource (XVI, 384 p. 4 illus.) Disciplina 338.4/766 Soggetti Chemical engineering Industrial engineering Production engineering Organic chemistry Industrial Chemistry/Chemical Engineering Industrial and Production Engineering Organic Chemistry Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Bibliographic Level Mode of Issuance: Monograph Nota di bibliografia Includes bibliographical references and index. Nota di contenuto 1 Introduction -- 1.1 Development of the chemical industry -- 1.2 What the chemical industry does -- 1.3 Characteristics of the industry -- 1.4 Sectors of the industry -- 1.5 Conversion of chemicals into consumer products -- 1.6 The chemical industry -- 1.7 Quality and safety -- 1.8 Environmental aspects -- 1.9 The importance of teamwork -- References -- 2 Quality and safety issues -- 2.1 Quality -- 2.2 Health and safety -- Acknowledgements -- References -- 3 Environmental issues -- 3.1 Introduction -- 3.2 Some environmental disasters -- 3.3 Public response to the disasters -- 3.4 The chemical companies' response -- 3.5 The way forward? -- 3.6 Conclusions --References -- 4 Polymers -- 4.1 Introduction -- 4.2 Molecular weight of polymers -- 4.3 Chemistry of polymerization -- 4.4 Homopolymers and copolymers -- 4.5 Manufacture of polymers -- 4.6 Properties of polymers -- 4.7 Thermoset polymers and cross-linking -- 4.8 Elastomers (rubbers) -- 4.9 Fibres -- 4.10 Present and future developments in polymer chemistry -- 5 Dyestuffs -- 5.1 Historical aspects -- 5.2 Classification and nomenclature of dyes -- 5.3 Colour

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## Sommario/riassunto

In this introduction to each of the major sectors of the chemical industry the authors cover the important chemistry, products, processes and relevant statistics. Each contributor draws on his/her extensive industrial experience to give a balanced coverage which is both easy to read and authoritative. New chapters on quality and safety issues, environmental issues and an extended chapter on chlor-alkali, sulphur and nitrogen industries, reflect the importance of these subjects today.