Record Nr. UNINA9910830759103321 Autore Bartholomew Calvin H Titolo Fundamentals of industrial catalytic processes [[electronic resource] /] / Calvin H. Bartholomew, Robert J. Farrauto Hoboken, N.J., : Wiley, c2006 Pubbl/distr/stampa **ISBN** 9780471730064 1-118-20973-7 1-282-78363-7 9786612783630 0-471-73007-6 0-471-73006-8 Edizione [2nd ed.] Descrizione fisica 1 online resource (1001 p.) 58.14 Classificazione Altri autori (Persone) FarrautoRobert J. <1941-> 660.2995 Disciplina 660/.2995 Soggetti Catalysis Catalysts - Industrial applications Lingua di pubblicazione Inglese **Formato** Materiale a stampa Monografia Livello bibliografico Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Fundamentals of Industrial Catalytic Processes; CONTENTS; Preface; Acknowledgments; Nomenclature; Part One: Introduction and Fundamentals; 1 Catalysis: Introduction and Fundamental Catalytic Phenomena: 2 Catalyst Materials, Properties and Preparation: 3 Catalyst Characterization and Selection; 4 Reactors, Reactor Design, and Activity Testing; 5 Catalyst Deactivation: Causes, Mechanisms, and Treatment; Part Two: Industrial Practice: 6 Hydrogen Production and Synthesis Gas Reactions: 7 Hydrogenation and Dehydrogenation of Organic Compounds 8 Catalytic Oxidations of Inorganic and Organic Compounds9 Petroleum Refining and Processing: 10 Environmental Catalysis: Mobile Sources; 11 Environmental Catalysis: Stationary Sources; 12 Homogeneous, Enzyme, And Polymerization Catalysis; 13 Hydrogen Production and Fuel Cells: Catalyst Technology; Glossary; Index Sommario/riassunto Catalysis is central to the chemical industry, as it is directly or involved

in the production of almost all useful chemical products. In this book

the authors, present the definitive account of industrial catalytic processes. Throughout Fundamentals of Industrial Catalytic Processes the information is illustrated with many case studies and problems. This book is valuable to anyone wanting a clear account of industrial catalytic processes, but is particularly useful to industrial and academic chemists and engineers and graduate working on catalysis. This book also:Covers fundame