1. Record Nr. UNINA9910141290103321 Autore Heck Ronald M. <1943-> **Titolo** Catalytic air pollution control [[electronic resource]]: commercial technology / / Ronald M. Heck, Robert J. Farrauto, with Suresh T. Gulati Hoboken, N.J., : John Wiley, c2009 Pubbl/distr/stampa **ISBN** 1-280-59085-8 9786613620682 1-118-39771-1 1-118-39774-6 1-118-39772-X Edizione [3rd ed.] Descrizione fisica 1 online resource (546 p.) Altri autori (Persone) FarrautoRobert J. <1941-> GulatiSuresh T Disciplina 629.25/28 Soggetti Air - Purification - Equipment and supplies Catalysts Automobiles - Catalytic converters 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. Nota di contenuto Catalytic Air Pollution Control: Commercial Technology; Contents; PREFACE; ACKNOWLEDGMENTS; ACKNOWLEDGMENTS, FIRST EDITION; ACKNOWLEDGMENTS, SECOND EDITION; I FUNDAMENTALS; 1. Catalyst Fundamentals; 1.1 Introduction; 1.2 Catalyzed Versus Noncatalyzed Reactions; 1.3 Catalytic Components; 1.4 Selectivity; 1.5 Promoters and their Effect on Activity and Selectivity: 1.6 Dispersed Model for Catalytic Component on Carrier: Pt on A12O3: 1.7 Chemical and Physical Steps in Heterogeneous Catalysis; 1.8 Practical Significance of Knowing the Rate-Limiting Step; References; Questions 2. The Preparation of Catalytic Materials: Carriers, Active Components, and Monolithic Substrates 2.1 Introduction; 2.2 Carriers; 2.3 Making the Finished Catalyst; 2.4 Nomenclature for Dispersed Catalysts; 2.5 Monolithic Materials as Catalyst Substrates: 2.6 Preparing Monolithic Catalysts; 2.7 Catalytic Monoliths; 2.8 Catalyzed Monolith

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Catalytic Air Pollution Control: Commercial Technology is the primary source for commercial catalytic air pollution control technology, offering engineers a comprehensive account of all modern catalytic technology. This Third Edition covers all the new advances in technology in automotive catalyst control technology, diesel engine catalyst control technology, small engine catalyst control technology, and alternate sustainable fuels for auto and diesel.