Record Nr. UNINA9910822888103321 Autore Theodore Louis **Titolo** Air pollution control equipment calculations / / Louis Theodore Hoboken, N.J., : John Wiley & Sons, c2008 Pubbl/distr/stampa **ISBN** 1-282-00350-X 9786612003509 0-470-25577-3 0-470-25575-7 Edizione [1st ed.] Descrizione fisica 1 online resource (588 p.) Disciplina 628.5/3 Soggetti Air - Purification - Equipment and supplies Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di contenuto AIR POLLUTION CONTROL EQUIPMENT CALCULATIONS; CONTENTS; PREFACE: INTRODUCTION: 1 AIR POLLUTION HISTORY: 2 AIR POLLUTION REGULATORY FRAMEWORK; 2.1 Introduction; 2.2 The Regulatory System; 2.3 Laws and Regulations: The Differences; 2.4 The Clean Air Act; 2.5 Provisions Relating to Enforcement; 2.6 Closing Comments and Recent Developments; 3 FUNDAMENTALS: GASES; 3.1 Introduction; 3.2 Measurement Fundamentals; 3.3 Chemical and Physical Properties: 3.4 Ideal Gas Law: 3.5 Phase Equilibrium: 3.6 Conservation Laws; Problems; 4 INCINERATORS; 4.1 Introduction; 4.2 **Design and Performance Equations** 4.3 Operation and Maintenance, and Improving PerformanceProblems: 5 ABSORBERS; 5.1 Introduction; 5.2 Design and Performance Equations; 5.3 Operation and Maintenance, and Improving Performance: Problems: 6 ADSORBERS; 6.1 Introduction; 6.2 Design and Performance Equations; 6.3 Operation and Maintenance, and Improving Performance; Problems; 7 FUNDAMENTALS: PARTICULATES; 7.1 Introduction; 7.2 Particle Collection Mechanisms; 7.3 Fluid-Particle Dynamics; 7.4 Particle Sizing and Measurement Methods; 7.5 Particle Size Distribution; 7.6 Collection

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Sommario/riassunto

Unique problem-and-solution approach for quickly mastering a broad range of calculations This book's problem-and-solution approach enables readers to quickly grasp the fundamentals of air pollution control equipment and essential applications. Moreover, the author sets forth solid principles for the design and selection of air pollution control equipment as well as for its efficient operation and maintenance. Readers gain a deep understanding of both the equipment itself and the many factors affecting performance. Following two introductory chapters, the book dedicates four chapters