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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 Performance; Problems; 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 Efficiency; Problems; 8 GRAVITY SETTLING CHAMBERS; 8.1 Introduction; 8.2 Design and Performance Equations; 8.3 Operation and Maintenance, and Improving Performance; Problems; 9 CYCLONES; 9.1 Introduction; 9.2 Design and Performance Equations; 9.3 Operation and Maintenance, and Improving Performance; Problems; 10 ELECTROSTATIC PRECIPITATORS; 10.1 Introduction; 10.2 Design and Performance Equations; 10.3 Operation and Maintenance, and Improving Performance; Problems; 11 VENTURI SCRUBBERS; 11.1 Introduction; 11.2 Design and Performance Equations; 11.3 Operation and Maintenance, and Improving Performance; Problems; 12 BAGHOUSES; 12.1 Introduction; 12.2 Design and Performance Equations; 12.3 Operation and Maintenance, and Improving Performance; Problems; APPENDIX A HYBRID SYSTEMS; A.1 Introduction; A.2 Wet Electrostatic Precipitators; A.3 Ionizing Wet Scrubbers; A.4 Dry Scrubbers; A.5 Electrostatically Augmented Fabric Filtration; APPENDIX B SI UNITS; B.1 The Metric System; B.2 The SI System; B.3 SI Multiples and Prefixes; B.4 Conversion Constants (SI); APPENDIX C EQUIPMENT COST MODEL; INDEX

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