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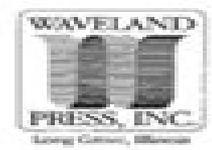
Fourth Edition

AIR POLLUTION CONTROL

A Design Approach

C. David Cooper
University of Central Florida

F. C. Alley
*Professor Emeritus
Clemson University*



*This book is dedicated to our students,
past, present, and future*

Contents

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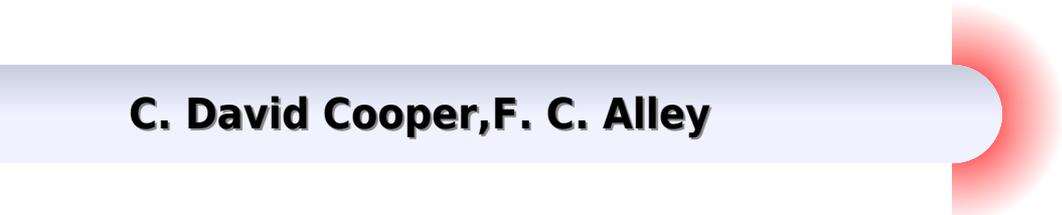
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Fundamentals of Environmental and Toxicological Chemistry Stanley E. Manahan, 2013-02-25 *Fundamentals of Environmental and Toxicological Chemistry Sustainable Science Fourth Edition* covers university level environmental chemistry with toxicological chemistry integrated throughout the book This new edition of a bestseller provides an updated text with an increased emphasis on sustainability and green chemistry It is organized based on the five spheres of Earth s

environment 1 the hydrosphere water 2 the atmosphere air 3 the geosphere solid Earth 4 the biosphere life and 5 the anthrosphere the part of the environment made and used by humans The first chapter defines environmental chemistry and each of the five environmental spheres The second chapter presents the basics of toxicological chemistry and its relationship to environmental chemistry Subsequent chapters are grouped by sphere beginning with the hydrosphere and its environmental chemistry water pollution sustainability and water as nature s most renewable resource Chapters then describe the atmosphere its structure and importance for protecting life on Earth air pollutants and the sustainability of atmospheric quality The author explains the nature of the geosphere and discusses soil for growing food as well as geosphere sustainability He also describes the biosphere and its sustainability The final sphere described is the anthrosphere The text explains human influence on the environment including climate pollution in and by the anthrosphere and means of sustaining this sphere It also discusses renewable nonpolluting energy and introduces workplace monitoring For readers needing additional basic chemistry background the book includes two chapters on general chemistry and organic chemistry This updated edition includes three new chapters new examples and figures and many new homework problems

Air Pollution Control C. David Cooper, F. C. Alley, 2002 Writing for engineers working in the area of air pollution control systems Cooper U of Central Florida and Alley emeritus Clemson U present a textbook describing the philosophy and procedures for systems design The primary purpose of the text is to aid in formal design training although general foundational information on air pollution and its control does provide the background for the former Chapters cover process design particulate matter cyclones electrostatic precipitators fabric filters particulate scrubbers auxiliary equipment properties of gases and vapors VOC incinerators gas adsorption and absorption biological controls atmospheric dispersion modeling and indoor air quality and control The CD ROM contains solutions to exercises from the text Annotation copyrighted by Book News Inc Portland OR

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capture of NOx and mercury emissions All chapters have been revised to reflect the most recent information on U S air quality trends and standards Moreover where available equations for equipment cost estimation have been updated to the present time Abundant illustrations clarify the concepts presented while numerous examples and end of chapter problems reinforce the design principles and provide opportunities for students to enhance their problem solving skills **Journal of Soil and Water Conservation** ,2009 Vol 25 no 1 contains the society s Lincoln Chapter s Resource conservation glossary

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