Air Pollution Control Engineering Noel De Nevers

Air Pollution Control Engineering Noel De Nevers Air Pollution Control Engineering A Comprehensive Overview Author Noel de Nevers This comprehensive text Air Pollution Control Engineering provides a thorough exploration of the principles technologies and strategies employed in mitigating air pollution Written by renowned expert Noel de Nevers the book caters to both professionals and students seeking a deep understanding of this critical field It delves into the complexities of air pollutants their sources impacts and the diverse engineering solutions available for their control The book is meticulously structured into several key sections each focusing on a distinct aspect of air pollution control engineering This structure facilitates a systematic and comprehensive understanding of the subject matter Part I Fundamentals of Air Pollution Chapter 1 to Air Pollution This chapter lays the foundation by defining air pollution outlining its sources and discussing its impacts on human health the environment and climate change It also introduces the historical context of air pollution and the evolution of control strategies Chapter 2 Meteorology and Atmospheric Chemistry This chapter delves into the atmospheric processes that govern the dispersion and transformation of air pollutants It explores meteorological factors such as wind patterns temperature inversions and precipitation as well as chemical reactions that occur in the atmosphere Chapter 3 Air Quality Standards and Regulations This chapter focuses on the regulatory framework surrounding air pollution control It discusses various air quality standards such as the National Ambient Air Quality Standards NAAQS in the United States and outlines the legal framework for emission control Part II Air Pollution Control Technologies Chapter 4 Particulate Matter Control This chapter covers the different technologies employed to remove particulate matter from air streams It explores methods like gravity settling cyclones electrostatic precipitators fabric filters and scrubbers analyzing their principles design considerations and applications 2 Chapter 5 GasPhase Pollution Control This chapter examines the technologies for controlling gaseous pollutants including sulfur dioxide nitrogen oxides volatile organic compounds VOCs and carbon monoxide It delves into techniques like absorption adsorption combustion catalytic converters and other specialized processes Chapter 6 Control of Hazardous Air Pollutants HAPs This chapter focuses specifically on the control of hazardous air pollutants which pose significant risks to human health It discusses the regulations surrounding HAPs and the application of various control technologies for their abatement Chapter 7 Air Pollution Control Equipment Design This chapter explores the engineering design considerations for air pollution control equipment It covers aspects like equipment selection sizing performance evaluation and optimization providing practical guidance for engineers working in the field Part

III Air Pollution Control Systems and Strategies Chapter 8 Source Control and Emission Reduction Strategies This chapter delves into the importance of source control in air pollution management It explores various strategies for reducing emissions at the source including process modifications fuel switching and material substitutions Chapter 9 Air Pollution Control System Integration This chapter discusses the integration of air pollution control technologies into existing or new industrial processes It considers factors like system layout interconnections and optimization for effective overall air pollution control Chapter 10 Air Quality Management and Policy This chapter addresses the broader context of air quality management encompassing policy aspects regional and international cooperation and the role of stakeholders in achieving clean air goals Part IV Case Studies and Emerging Technologies Chapter 11 Case Studies in Air Pollution Control This chapter presents realworld case studies of successful air pollution control projects It highlights the application of various technologies the challenges faced and the lessons learned from these experiences Chapter 12 Emerging Technologies in Air Pollution Control This chapter explores promising new technologies and innovations in the field such as advanced oxidation processes biofiltration and nanotechnologybased solutions It discusses their potential benefits and limitations highlighting the future directions of air pollution control engineering Conclusion Air Pollution Control Engineering by Noel de Nevers serves as an essential reference for 3 professionals students and policymakers seeking a comprehensive understanding of this vital field Its comprehensive coverage clear explanations and practical insights provide valuable knowledge for tackling the challenges of air pollution and achieving clean air for a sustainable future

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this revised edition of the book on environmental pollution control engineering features a systematic and thorough treatment of the principles of the origin of air water and land pollutants their effect on the environment and the methods available to control them the demographic and environmental trends energy consumption patterns and their impact on the environment are clearly discussed application of the physical and chemical engineering concepts to the design of pollution control equipment is emphasized due importance is given to modelling quality monitoring and control of specific major pollutants a separate chapter on the management of hazardous wastes is added information pertaining to indian conditions is given wherever possible to help the reader gain an insight into india sown pollution problems this book is mainly intended as a textbook for an integrated one semester course for senior level undergraduate or first year post graduate engineering students and can also serve as a reference book to practising engineers and decision makers concerned with environmental pollution control

a panel of respected air pollution control educators and practicing professionals critically survey the both principles and practices underlying control processes and illustrate these with a host of detailed design examples for practicing engineers the authors discuss the performance potential and limitations of the major control processes including fabric filtration cyclones electrostatic precipitation wet and dry scrubbing and condensation as a basis for intelligent planning of abatement systems additional chapters critically examine flare processes thermal oxidation catalytic oxidation gas phase activated carbon adsorption and gas phase biofiltration the contributors detail the best available technologies bat for air pollution control and provide cost data examples theoretical explanations and engineering methods for the design installation and operation of air pollution process equipment methods of practical design calculation are illustrated by numerous numerical calculations

this handbook provides information for professionals attempting to reduce and eliminate air pollution problems it contains information on all aspects of air pollution and also examines the technical aspects of air pollution control equipment many practical applications are

provided and the text is referenced to assist the reader in further research the major scientific areas of air pollution are brought together with practical engineering solutions and will help air quality and pollution control managers to reduce maintenance costs and prevent deterioration of installations

air pollution control can be approached from a number of different engineering disciplines environmental chemical civil and mechanical to that end noel de nevers has written an engaging overview of the subject while based on the fundamentals of chemical engineering the treatment is accessible to readers with only one year of college chemistry in addition to discussions of individual air pollutants and the theory and practice of air pollution control devices de nevers devotes about half the book to topics that influence device selection and design such as atmospheric models and u s air pollution law the generous number of end of chapter problems are designed to develop more complex thinking about the concepts presented and integrate them with readers personal experienceincreasing the likelihood of deeper understanding

air pollution control and air quality engineering are some of the key subjects in any environmental engineering curriculum this book will cover topics that are fundamental to pollution control engineers and professionals including air pollution and its management through regulatory approaches calculating and estimating emissions and appying con

engineers in multiple disciplines environmental chemical civil and mechanical contribute to our understanding of air pollution control to that end noel de nevers has incorporated these multiple perspectives into an engaging and accessible overview of the subject while based on the fundamentals of chemical engineering the book is accessible to any reader with only one year of college chemistry in addition to detailed discussions of individual air pollutants and the theory and practice of air pollution control devices de nevers devotes seven chapters to topics that influence device selection and design such as atmospheric models and u s air pollution law the third edition s many in text examples and end of chapter problems provide a more complex treatment of the concepts presented significant updates include more discussion on the problem of greenhouse gas emissions and a thorough look at the volkswagen diesel emission scandal

this book provides a fully comprehensive rigorous and refreshing treatment of air pollution and control covering present day technology and developments it covers various new topics like bioaerosols or aeroallergens and hazardous air pollutants including diesel exhaust and dioxins the book is intended to meet the requirements of a undergraduate and postgraduate students of particularly environmental and mechanical engineering and also other branches of engineering b technologists designers operation and maintenance engineers of

industries electrical power plants heat and power utilities c aspirants for competitive examinations of ias ies ifs pcs and aspirants for various state and private technical services etc and d general readers interested in the field for better understanding and knowledge the book is divided into 20 chapters and presents enormous information covering all aspects of air pollution in various sectors relevant to indian conditions each of the following chapters is followed by questions at the end based upon the text

introductory technical guidance for mechanical engineers environmental engineers civil engineers and construction managers interested in air pollution control engineering here is what is discussed 1 cyclone collectors 2 fabric filters 3 scrubbers and precipitators 4 sulfur and nitrogen oxides control 5 air stripping

the past few years have seen the emergence of a growing widespread desire in this country and indeed everywhere that positive actions be taken to restore the quality of our environment and to protect it from the degrading effects of all forms of pollution air noise solid waste and water since pollution is a direct or indirect consequence of waste if there is no waste there can be no pollution and the seemingly idealistic demand for zero discharge can be construed as a demand for zero waste however as long as there is waste we can only attempt to abate the consequent pollution by converting it to a less noxious form in those instances in which a particular type of pollution has been recognized three major questions usually arise 1 how serious is the pollution 2 is the technology to abate it available and 3 do the costs of abatement justify the degree of abatement achieved the principal intention of this series of books is to help the reader to formulate answers to the last two of the above three questions the traditional approach of applying tried and true solutions to specific pollution problems has been a major factor contributing to the success of environmental engineering and in large measure has accounted for the establishing of a methodology of pollution control

the book contains twelve chapters followed by appendices meant for specific target reader groups pertaining to complete domain of water pollution control engineering beside it also contains two chapters devoted to short questions answers and multiple choice questions answers drawn from the examination papers of various engineering colleges for the benefits of the students the book will be useful for degree diploma curriculum oo various branches of engineering and for various associate membership examinations conducted by professional bodies like institution of engineers amie indian institute of metals amiim indian institute of chemical engineers amiiche institute of chemist etc it will also be equally useful for m sc b sc students salient features of the book subject matter has been presented in simple lucid easy to understand language covers all the topics included in the syllabus of various engineering colleges technical institutes professional bodies examination papers short question answers and multiple choice questions answers drawn from the examination papers

of various engineering colleges and professional bodies examinations given at the end of the book enhances its utility for students up to date statistics and glossary of terms related to the subject have been included

leading pollution control educators and practicing professionals describe how various combinations of different cutting edge process systems can be arranged to solve air noise and thermal pollution problems each chapter discusses in detail a variety of process combinations along with technical and economic evaluations and presents explanations of the principles behind the designs as well as numerous variant designs useful to practicing engineers the emphasis throughout is on developing the necessary engineering solutions from fundamental principles of chemistry physics and mathematics the authors also include extensive references cost data design methods guidance on the installation and operation of various air pollution control process equipment and systems and best available technologies bat for air thermal and noise pollution control

from the alleys of the world environment comes a handbook dealing with air pollution its control and engineering this is a step by step guide divided into segments taking you into a long journey to make you aware of the major crisis facing the world environment today this will transform the way you think about the atmosphere and the air we inhale the misconceptions regarding atmospheric condition will go for a toss on reading through this book air pollution control engineering is geared towards the havoc air pollutants and harmful emissions creating in the sub atmospheric strata it is eroding the ozone layer essential for human health and vis a vis leading to a cascading effect of harmful incidents in a threadbare explanation all sources of air pollutants and their resultant effects are depicted in detail in this book

introductory technical guidance for mechanical engineers environmental engineers civil engineers and construction managers interested in air pollution control engineering here is what is discussed 1 cyclone collectors2 fabric filters3 scrubbers and precipitators4 sulfur and nitrogen oxides control5 air stripping

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