

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 real-world 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 nanotechnology-based 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 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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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

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

instrumentation and automatic control systems

includes entries for maps and atlases

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