

Air Pollution Control A Design Approach 2011 839 Pages

Pollution Control in the United States Air Pollution Control Air Pollution Control Environmental Pollution Control: An Introduction to Principles and Practice of Administration The Economic Impact of Pollution Control Water and Water Pollution Control Decision-making in Air Pollution Control Illinois Air Pollution Control Requirements for Gasoline Dispensing Facilities Integrated Pollution Control in Europe and North America Environmental Pollution Control Air Pollution Control Regulations Federal Pollution Control Laws Air Pollution Control Engineering Clean Air Profile of Air Pollution Control in Los Angeles County Ground Water Pollution Control Pollution Control Technologies Water Pollution Control Advanced Air and Noise Pollution Control Annual Report of the Stream Pollution Control Board of the State of Indiana J. Clarence Davies C. David Cooper J. McLoughlin Council on Environmental Quality (U.S.) United States. Federal Water Pollution Control Administration George H. Hagevik Illinois. Division of Air Pollution Control Nigel Haigh Allan D. McKnight Illinois. Pollution Control Board Robert Esworthy Lawrence K. Wang Charles O. Jones Los Angeles County (Calif.). Air Pollution Control District L.W. Canter Swatantra P. Singh California. Central Valley Regional Water Pollution Control Board Lawrence K. Wang Indiana Stream Pollution Control Board

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this important new volume emerges from the most extensive evaluation of american pollution control ever undertaken the authors provide authoritative analysis of how our efforts are succeeding and how they are lacking this is crucial reading for concerned citizens scholars and students and of course policymakers as new environmental political

and economic realities reshape pollution issues

a 25 year tradition of excellence is extended in the fourth edition of this highly regarded text in clear authoritative language the authors discuss the philosophy and procedures for the design of air pollution control systems their objective is twofold to present detailed information on air pollution and its control and to provide formal design training for engineering students new to this edition is a comprehensive chapter on carbon dioxide control perhaps the most critical emerging issue in the field emphasis is on methods to reduce carbon dioxide emissions and the technologies for carbon capture and sequestration an expanded discussion of control technologies for coal fired power plants includes details on the 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

this work is written for those who seek effective ways of controlling environmental pollution indeed many developing and east european states look to the experience of the united states and western europe this book does not however concentrate on any one system of control or control laws but succeeds in introducing the exact nature of pollution problems and the variety of ways in which effective control and management have been achieved rather than advocate a ready made system lessons are drawn for example from the u k u s a sweden denmark france germany and new zealand and instructive legislative samples are reproduced the place of international obligations being clearly marked out the skilful and wide ranging comparative approach adopted renders this handbook yet more valuable based as it is on the premise that a control system is better if it is built on existing institutional and legal structures the book will interest all who advise on environmental matters on a daily basis particularly senior administrators policy makers institutions legal advisers and researchers

originally published in 1974 this volume brings together contributions from lawyers a nuclear physicist a landscape architect biologist engineers and a former inspector of the international atomic energy agency it covers technical and legal information on air water sea land and noise pollution and provides a comprehensive guide summary and introduction to the journal literature in separate but relevant disciplines all of the contributors have specialised in studies in pollution control and contributed to the debate on use and management of the environment

as a result of enforcement actions and settlements for noncompliance with federal pollution control requirements the u s environmental protection agency epa reported that for fy2011 regulated entities committed to invest an estimated 19 0 billion for judicially mandated pollution controls and cleanup and for implementing mutually agreed upon supplemental environmentally beneficial projects epa estimates that these efforts achieved commitments to reduce treat or eliminate 1 8 billion pounds of pollutants in the environment primarily from air and water epa also assessed more than 152 0 million in civil penalties administrative and judicial and 35 0 million in criminal fines and

restitution during fy2011 nevertheless noncompliance with federal pollution control laws remains a continuing concern the overall effectiveness of the enforcement organizational framework the balance between state autonomy and federal oversight and the adequacy of funding are long standing congressional concerns this report provides an overview of the statutory framework key players infrastructure resources tools and operations associated with enforcement and compliance of the major pollution control laws and regulations administered by epa it also outlines the roles of federal including regional offices and state regulators as well as the regulated community understanding the many facets of how all federal pollution control laws are enforced and the responsible parties involved can be challenging enforcement of the considerable body of these laws involves a complex framework and organizational setting the array of enforcement compliance tools employed to achieve and maintain compliance includes monitoring investigation administrative and judicial civil and criminal actions and penalties and compliance assistance and incentive approaches most compliance violations are resolved administratively by the states and epa epa concluded 1 735 final administrative penalty orders in fy2010 civil judicial actions which may be filed by states or epa are the next most frequent enforcement action epa may refer civil cases to the u s department of justice doj referring 222 civil cases in fy2011 the u s attorney general s office and doj s environmental crimes section or the state attorneys general in coordination with epa criminal investigators and general counsel may prosecute criminal violations against individuals or entities who knowingly disregard environmental laws or are criminally negligent federal appropriations for environmental enforcement and compliance activities have remained relatively constant in recent fiscal years some contend that overall funding for enforcement activities has not kept pace with inflation or with the increasingly complex federal pollution control requirements congress appropriated 583 4 million for enforcement activities for fy2012 a decrease below the 593 5 million enacted for fy2011 and the 596 7 million enacted for fy2010 but an increase above the 568 9 million enacted for fy2009 and 553 5 million for fy2008 the president s fy2013 budget request included 615 9 million for epa enforcement activities to date congress has not completed action on the fy2013 appropriations for epa

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

clean air begins and ends with a vivid case study of air pollution at the clairton coke works the largest such facility in the world against this background jones analyzes the development of pollution control policy beyond capability he describes normal policy development as the gradual temporization of proposals but that air pollution control deviated from the norm because of widespread public demand in the late 1960s for unrealistic controls jones s study further examines the development and implementation of

policy at three levels local state and federal

covers thoroughly technologies for ground water pollution control in part one and deals in depth with aquifer restoration decision making in part two part three gives an extensive range of case studies and detailed references

p this monograph is based on pollution control technologies available to deal with water and air pollution it includes removal of variety of pollutants including arsenic chromium uranium pesticides and arsenic from water using adsorption technique in addition this book deals with the sampling and removal of microplastics using various techniques the contents also focus on the role of membrane technology in water and wastewater treatment and particulate matter air pollution and its control techniques this volume will be a useful guide for researchers academics and scientists

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

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