

# Control of Volatile Organic Compound Emissions



Conventional and Emerging  
Technologies

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# Control Of Volatile Organic Compound Emissions Conventional And Emerging Technologies

**William J. Cooper, Randy D.  
Curry, Kevin E. O'Shea**



## **Control Of Volatile Organic Compound Emissions Conventional And Emerging Technologies:**

**Control of Volatile Organic Compound Emissions** Paige Hunter, S. Ted Oyama, 2000-03-27 The complete guide to the control of volatile organic compound VOC emissions With increased regulatory pressures on air pollution emissions there is a growing need for innovative control technologies in a wide range of industries This timely and authoritative book explores the science technology economics and applications specific to the control of volatile organic compound VOC emissions Engineer Paige Hunter joins forces with S Ted Oyama an expert in VOC control and a renowned ozone chemist to present a thorough review of both conventional and emerging techniques for the treatment of VOC containing streams They provide detailed technical descriptions up to date cost data on processes and practical information for industry professionals on how to apply the techniques in diverse fields Coverage includes Comparisons of the major conventional control methods for the treatment of VOC containing streams The new technologies of membrane filtration ultraviolet oxidation and corona destruction The cutting edge technology of catalytic ozonation suitable for retrofitting existing processes or control systems International aspects of air pollution and VOC control A comprehensive listing of hazardous air pollutants HAPs and VOCs Dozens of illustrations and photographs as well as references to Internet resources [Structured Catalysts and Reactors](#)

Andrzej Cybulski, Jacob A. Moulijn, 2005-11-02 Interest in structured catalysts is steadily increasing due to the already proven as well as potential advantages of these catalysts Updating the comprehensive coverage of the first edition published in 1998 with the latest science and applications Structured Catalysts and Reactors Second Edition gives detailed information on all aspects of structured catalysts and reactors including materials mass transfer selectivity activity and stability catalyst preparation design and characterization process development modeling and optimization reactor design and operation costs and considerations The book first examines how monolithic catalysts are used to clean exhaust gas from gasoline engines treat industrial off gases burn fuels in commercial settings and synthesize chemicals in two and three phase processes It discusses configurations microstructure physical properties and manufacture of ceramic and metallic monoliths before directing its focus to arranged catalysts and structured packings in terms of mass transfer The book then explores catalytically active membranes and filters featuring metallic membranes permeation mechanisms preparation and modeling commercial membranes and the latest applications such as zeolitic membranes Finally several chapters present techniques for incorporating catalytic species into the structured catalyst support and controlling catalyst nanoporosity This book conveys the scientific as well as economic advantages of using these unconventional catalytic techniques With over 1500 references tables drawings and photographs as well as in depth discussions and a new approach to catalytic processes Structured Catalysts and Reactors Second Edition is an essential reference for anyone working with or studying catalysis

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cost effectively achieve President Obama's goals to reduce greenhouse gases ground level ozone and toxic air emissions to the lowest levels ever achieved in the United States and internationally Help support the VOCGEN commercialization effort and buy the book VOCGEN today     Biotechnology in the Chemical Industry Pratima Bajpai, 2019-11-08 Biotechnology in the Chemical Industry Towards a Green and Sustainable Future focuses on achievements and prospects for biotechnology in sustainable production of goods and services especially those that are derived at present mostly from the traditional chemical industry It considers the future impact of industrial biotechnology and lays out the major research areas which must be addressed to move from a flourishing set of scientific disciplines to a major contributor to a successful future knowledge based economy The book focuses on the research needed to underpin three broad topics biomass bio processes and bio products including bio energy Readers including advanced students researchers industry professionals academics analysts consultants and anyone else interested or involved in biotechnology will find this book very informative Offers a comprehensive introduction to the subject for researchers interested in the biotechnological applications in chemical industry Provides a state of the art update on the field Presents the economic and ecological advantages of industrial biotechnology Discusses efforts made by developing countries towards industrial biotechnology Describes new biotechnological applications Includes the major challenges facing industrial biotechnology     Environmental Applications of Ionizing Radiation William J. Cooper, Randy D. Curry, Kevin E. O'Shea, 1998-10-30 A unique opportunity to learn about the most important developments in environmental applications of ionizing radiation This book makes it easy for scientists and engineers to acquaint themselves with the state of the art in ionizing radiation techniques for pollution control environmental cleanup and waste processing With contributions by more than 100 researchers working in industry academia and government it reports from around the world on the most important recent advances in the field From the latest refinements in electron beam technology to new techniques for the purification of flue gases and from radiation recycling of rubber wastes to radiation induced cleanup of water and wastewater this valuable resource covers all established and emerging environmental applications of ionizing radiation The only book available in English to focus exclusively on the subject Environmental Applications of Ionizing Radiation belongs in the working library of every aspiring or practicing scientist or engineer concerned with environmental pollution Radiation has long been used in food processing medical device sterilization and polymer production but only recently has it begun to be widely accepted as a valued component in environmental cleanup initiatives The growing popularity of radiation as a means of neutralizing both natural and synthetic contaminants is due in great part to impressive results recently achieved by researchers worldwide using ionizing radiation methods especially those involving electron beam techniques Despite these many successes there continues to be a conspicuous poverty of professional references on the subject Environmental Applications of Ionizing Radiation fills that gap Environmental Applications of Ionizing Radiation brings together contributions by more than 100 leading scientists from the

Americas Europe and Asia The first English language text devoted exclusively to this exciting growth area it affords readers a unique opportunity to acquaint themselves with state of the art applications of ionizing radiation for solving environmental remediation problems Featuring many fascinating and informative case studies from around the world it brings scientists and engineers quickly in line with the latest advances in Electron beam design Flue gas treatment using electron beams Ionizing radiation in pollution control Irradiation treatment of industrial wastes Irradiation treatment of soil and biosolids Irradiation and photocatalytic processes New and emerging applications of ionizing radiation Environmental Applications of Ionizing Radiation is a valuable working resource for civil chemical and environmental engineers and scientists involved with pollution control water treatment and natural and industrial waste treatment It also belongs on the syllabuses of all graduate level engineering courses in air and water management      *Control of Volatile Organic Compound Emissions* Hunter,2003-04-01      Journal of Zhejiang University ,2006      **Against the Grain** ,2000      *Annual Report ... National Acid Precipitation Assessment Program* National Acid Precipitation Assessment Program (U.S.). Office of the Director of Research,1985      **Annual Report ... and Findings Update** National Acid Precipitation Assessment Program (U.S.). Office of the Director,1985      **EM** ,2002      **Emerging Solutions to VOC & Air Toxics Control** ,1997      **Journal of the Air & Waste Management Association** ,2001      *ASHRAE Handbook* ,2007      **Sci-tech News** ,2001      The Chemical Engineer ,2001      *The British National Bibliography* Arthur James Wells,2000      *Environmental Technology, Assessment, and Policy* ,1989      *Treatment of Hazardous Petrochemical and Petroleum Wastes* Dudley J. Burton,K. Ravishankar,1989      American Book Publishing Record R.R. Bowker Company,1978

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