

Control Of Diesel Particulate Matter In Underground Coal Mines Sudoc I 28239276

Particulate Matter Air Pollution from Motor Vehicles Control of Heavy-duty Diesel
Particulate Emissions Using Catalyzed Ceramic Traps Modeling and Control of
Engines and Drivelines Diesel Engine Design and Development of Heavy Duty Diesel
Engines Health Effects of Diesel Exhaust Emissions Proceedings of the 11th
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Particulate Matter

In 1997, the U.S. Environmental Protection Agency (EPA) established regulatory standards to address health risks posed by inhaling tiny particles from smoke, vehicle exhaust, and other sources. At the same time, Congress and the EPA began a multimillion dollar research effort to better understand the sources of these airborne particles, the levels of exposure to people, and the ways that these particles cause disease. To provide independent guidance to the EPA, Congress asked the National Research Council to study the relevant issues. The result was a series of four reports on the particulate-matter research program. The first two books offered a conceptual framework for a national research program, identified the 10 most critical research needs, and described the recommended timing and estimated costs of such research. The third volume began the task of assessing initial progress made in implementing the research program. This, the fourth and final volume, gauged research progress made over a 5-year period on each of the 10 research topics. The National Research Council concludes that particulate matter research has led to a better understanding of the health effects caused by tiny airborne particles. However, the EPA, in concert with other agencies, should continue research to reduce further uncertainties and inform long-term decisions.

Air Pollution from Motor Vehicles

Control of Heavy-duty Diesel Particulate Emissions Using Catalyzed Ceramic Traps

This book gives the readers an introduction to experimental and theoretical knowledge acquired by large-scale laser laboratories that are dealing with extra-high peak power and ultrashort laser pulses for research of terawatt (TW), petawatt (PW), or near-future exawatt (EW) laser interactions, for soft X-ray sources, for acceleration of particles, or for generation of hot dense thermal plasma for the laser fusion. The other part of this book is dealing with the small-scale laser laboratories that are using for its research on commercial sources of laser radiation, nanosecond (ns), picosecond (ps), or femtosecond (fs) laser pulses, either for basic research or for more advanced applications. This book is divided into six main sections dealing with short and ultrashort laser pulses, laser-produced soft X-ray sources, large-scale high-power laser systems, free-electron lasers, fiber-based sources of short optical pulse, and applications of short pulse lasers. In each chapter readers can find fascinating topics related to the high energy and/or short pulse laser technique. Individual chapters should serve the broad spectrum of readers of different expertise, layman, undergraduate and postgraduate students, scientists, and engineers, who may in this book find easily explained fundamentals as well as advanced principles of particular subjects related to these phenomena.

Modeling and Control of Engines and Drivelines

Diesel Engine

Advanced Mine Ventilation presents the reader with a unique book providing the theory and applications for designing mine ventilation with computers, controlling respirable coal dust and diesel particulate matter, combustible gas control and, mine fire management. The book summarizes the latest knowledge created in the past 40 years in these areas. Authored by an expert in the field with 50 years' experience, the book is a great combination of theory and applications. The mine ventilation section provides computer programs (both FORTRAN and C++) to calculate not only air quantities and pressure losses but also the concentration of any pollutant in all junctions and branches of the mine network. Small particle mechanics and dust control is covered in the second section of the book. The third section on combustible gas control discusses all aspects of mine gases from origin to control. The last section on mine fire control discusses spontaneous combustion, frictional ignitions, mine explosions, and mine sealing and recovery. The book is not only a very good reference book but also an excellent textbook for two graduate level courses in Mining Engineering. Provides the latest knowledge on the four related topics of mine environment control; that is, ventilation, dust, gas, and fire in a single volume. Computer simulation of mine ventilation in both FORTRAN and C++. State-of-the-art respirable dust control. Mine degasification and methane production from a coal lease. Mine fire management.

Design and Development of Heavy Duty Diesel Engines

Health Effects of Diesel Exhaust Emissions

Miljørapport 1988:8

Proceedings of the 11th International Mine Ventilation Congress

Catalytic Air Pollution Control: Commercial Technology is the primary source for commercial catalytic air pollution control technology, offering engineers a comprehensive account of all modern catalytic technology. This Third Edition covers all the new advances in technology in automotive catalyst control technology, diesel engine catalyst control technology, small engine catalyst control technology, and alternate sustainable fuels for auto and diesel.

Diesel Particulate Filter Technology

Controlling Exposure to Diesel Emissions in Underground Mines

Carbon monoxide (CO) is a toxic air pollutant produced largely from vehicle emissions. Breathing CO at high concentrations leads to reduced oxygen transport by hemoglobin, which has health effects that include impaired reaction timing, headaches, lightheadedness, nausea, vomiting, weakness, clouding of consciousness, coma, and, at high enough concentrations and long enough exposure, death. In recognition of those health effects, the U.S. Environmental Protection Agency (EPA), as directed by the Clean Air Act, established the health-based National Ambient Air Quality Standards (NAAQS) for CO in 1971. Most areas that were previously designated as "nonattainment" areas have come into compliance with the NAAQS for CO, but some locations still have difficulty in attaining the CO standards. Those locations tend to have topographical or meteorological characteristics that exacerbate pollution. In view of the challenges posed for some areas to attain compliance with the NAAQS for CO, congress asked the National Research Council to investigate the problem of CO in areas with meteorological and topographical problems. This interim report deals specifically with Fairbanks, Alaska. Fairbanks was chosen as a case study because its meteorological and topographical characteristics make it susceptible to severe winter inversions that trap CO and other pollutants at ground level.

Interfacial Applications in Environmental Engineering

This book discusses recent changes in the European legislation for exhaust emissions from motor vehicles. It starts with a comprehensive explanation of both the structure and range of applicability of new regulations, such as Euro 5 and Euro 6 for light-duty vehicles and Euro VI for heavy-duty vehicles. Then it introduces the most important issues in in-service conformity and conformity of production for vehicles, describing the latest procedures for performing exhaust emissions tests

under both bench and operating conditions. Subsequently, it reports on portable emission measurement systems (PEMS) and their application for assessing the emissions of gaseous and particulate matter alike, under actual operating conditions and in all transport modes. Lastly, the book presents selected findings from exhaust emissions research on engines for a variety of transport vehicles, such as light-duty and heavy-duty vehicles, as well as non-road vehicles, which include farm tractors, groundwork and forest machinery, diesel locomotives, high-rail vehicles, combat vehicles and special-purpose vehicles. This work offers a valuable reference guide for researchers and professionals dealing with environmental regulations and vehicle manufacturing in the European Union.

I.C. Engines And Combustion

The use of diesel-powered equipment in underground mining operations provides many benefits to the industry. It also presents many challenges to the health and safety of workers as it is a significant source of submicrometer aerosols and noxious gases. This book was developed to assist the coal and metal/nonmetal underground mining industries in their efforts to reduce the exposure of workers to aerosols and gases from diesel-powered equipment. It includes information collected by researchers at the National Institute for Occupational Safety and Health/Office of Mine Safety and Health Research (NIOSH/OMSHR). Prior to the production of this text, the knowledge on this complex issue was fragmented. The goal of this volume is to make the information available in one easy-to-use reference. The book includes comprehensive, mine-specific programs for use by mechanics, mine ventilation engineers, industrial hygienists, mine managers, union health and safety representatives, and personnel responsible for the acquisition of diesel vehicles, engines, exhaust aftertreatment systems, fuels, and lubricants. The description of methods to reduce exposure to diesel aerosols includes curtailment of diesel particulate matter and gaseous emissions at their source, and controlling airborne pollutants with ventilation and personal protective equipment. This information should also help researchers in industry, government, and academia to identify areas that need to be addressed in future research and development efforts.

Air Quality Management in the United States

Diesel particulate filters are designed to reduce or virtually eliminate ultrafine particulate emissions, specifically the solid diesel soot fraction. This book covers the latest and most important research in this field, focusing mainly on the advances of the last five years (2002-2006).

Diesel Emissions and Their Control

This book focuses on particulate matter emissions produced by vehicles with combustion engines. It describes the physicochemical properties of the particulate matter, the mechanisms of its formation and its environmental impacts (including those on human beings). It discusses methods for measuring particulate mass and number, including the state-of-the-art in Portable Emission Measurement System (PEMS) equipment for measuring the exhaust emissions of both light and heavy-

duty vehicles and buses under actual operating conditions. The book presents the authors' latest investigations into the relations between particulate emission (mass and number) and engine operating parameters, as well as their new findings obtained through road tests performed on various types of vehicles, including those using diesel particulate filter regeneration. The book, which addresses the needs of academics and professionals alike, also discusses relevant European regulations on particulate emissions and highlights selected methods aimed at the reduction of particulate emissions from automobiles.

Effectiveness of Selected Diesel Particulate Matter Control Technologies for Underground Mining Applications

This book will assist readers in meeting today's tough challenges of improving diesel engine emissions, diesel efficiency, and public perception of the diesel engine. It can be used as an introductory text, while at the same time providing practical information that will be useful for experienced readers. This comprehensive book is well illustrated with more than 560 figures and 80 tables. Each main section is broken down into chapters that offer more specific and extensive information on current issues, as well as answers to technical questions.

Particulate Emissions from Vehicles

Industrial Instrumentation and Control Systems II

Urea-SCR Technology for deNO_x After Treatment of Diesel Exhausts

Based on the 2014 National Automotive Technicians Education Foundation (NATEF) Medium/Heavy Truck Tasks Lists and ASE Certification Test Series for truck and bus specialists, Fundamentals of Medium/Heavy Duty Diesel Engines is designed to address these and other international training standards. The text offers comprehensive coverage of every NATEF task with clarity and precision in a concise format that ensures student comprehension and encourages critical thinking. Fundamentals of Medium-Heavy Duty Diesel Engines describes safe and effective diagnostic, repair, and maintenance procedures for today's medium and heavy vehicle diesel engines.

Federal Register

Urea-SCR Technology for deNO_x After Treatment of Diesel Exhausts presents a complete overview of the selective catalytic reduction of NO_x by ammonia/urea. The book starts with an illustration of the technology in the framework of the current context (legislation, market, system configurations), covers the fundamental aspects of the SCR process (catalysts, chemistry, mechanism, kinetics) and analyzes its application to useful topics such as modeling of full scale monolith catalysts, control aspects, ammonia injections systems and integration with other devices for combined removal of pollutants.

NOx Trap Catalysts and Technologies

The proceedings of the 11th International Mine Ventilation Congress (11th IMVC), is focused on mine ventilation, health and safety and Earth science. The IMVC has become the most influential international mine ventilation event in the world, and has long been a popular forum for ventilation researchers, practitioners, academics, equipment manufacturers and suppliers, consultants and government officials around the globe to explore research results, exchange best practices, and to launch new products for a better and safer industry. It also serves as a useful platform to attract and train future ventilation professionals and mine planning engineers, as well as for mining companies to discover better practices to provide better ventilation planning.

Fundamentals of Medium/Heavy Duty Diesel Engines

This book is intended to serve as a comprehensive reference on the design and development of diesel engines. It talks about combustion and gas exchange processes with important references to emissions and fuel consumption and descriptions of the design of various parts of an engine, its coolants and lubricants, and emission control and optimization techniques. Some of the topics covered are turbocharging and supercharging, noise and vibrational control, emission and combustion control, and the future of heavy duty diesel engines. This volume will be of interest to researchers and professionals working in this area.

Research Priorities for Airborne Particulate Matter

The estimated health impacts and associated economic costs resulting from airborne particulate matter are substantial. Exposure to airborne fine particles ranks highly amongst preventable causes of disease. This book reviews the sources and atmospheric processes affecting airborne particulate matter and consequent impacts upon human health. Examining the latest information on the sources of particles in the atmosphere, both through direct emissions and atmospheric formation, the book also explores the methods which are used to estimate the contributions of different sources to airborne concentrations. Featuring case studies from recent assessments in Europe, the USA, China and India, the book provides a global overview of source apportionment. The health effects are reviewed in the context of the influence of sources, chemical composition and particle size upon relative toxicity. This comprehensive book is an important reference for policymakers and consultants working with pollution and human health, as well as academics working in atmospheric chemistry.

New Technologies for Emission Control in Marine Diesel Engines

Contributions by Surhid Gautam and Lit-Mian Chan. This book presents a state-of-the-art review of vehicle emission standards and regulations and provides a synthesis of worldwide experience with vehicle emission control technologies and their applications in both industrial and developing countries. Topics covered include: * The two principal international systems of vehicle emission standards:

those of North America and Europe * Test procedures used to verify compliance with emissions standards and to estimate actual emissions * Engine and aftertreatment technologies that have been developed to enable new vehicles to comply with emission standards, as well as the cost and other impacts of these technologies * An evaluation of measures for controlling emissions from in-use vehicles * The role of fuels in reducing vehicle emissions, the benefits that could be gained by reformulating conventional gasoline and diesel fuels, the potential benefits of alternative cleaner fuels, and the prospects for using hydrogen and electric power to run motor vehicles with ultra-low or zero emissions. This book is the first in a series of publications on vehicle-related pollution and control measures prepared by the World Bank in collaboration with the United Nations Environment Programme to underpin the Bank's overall objective of promoting transport that is environmentally sustainable and least damaging to human health and welfare.

Control of Diesel Particulate Matter in Underground Coal Mines

High Energy and Short Pulse Lasers

Airborne Particulate Matter

Vehicle exhaust emissions, particularly from diesel cars, are considered to be a significant problem for the environment and human health. Lean NO_x Trap (LNT) or NO_x Storage/Reduction (NSR) technology is one of the current techniques used in the abatement of NO_x from lean exhausts. Researchers are constantly searching for new inexpensive catalysts with high efficiency at low temperatures and negligible fuel penalties, to meet the challenges of this field. This book will be the first to comprehensively present the current research on this important area. Covering the technology used, from its development in the early 1990s up to the current state-of-the-art technologies and new legislation. Beginning with the fundamental aspects of the process, the discussion will cover the real application standard through to the detailed modelling of full scale catalysts. Scientists, academic and industrial researchers, engineers working in the automotive sector and technicians working on emission control will find this book an invaluable resource.

Advanced Mine Ventilation

Engine Exhaust Particulates

New Technologies for Emission Control in Marine Diesel Engines provides a unique overview on marine diesel engines and aftertreatment technologies that is based on the authors' extensive experience in research and development of emission control systems, especially plasma aftertreatment systems. The book covers new and updated technologies, such as combustion improvement and after treatment, SCR, the NO_x reduction method, Ox scrubber, DPF, Electrostatic precipitator,

Plasma PM decomposition, Plasma NO_x reduction, and the Exhaust gas recirculation method. This comprehensive resource is ideal for marine engineers, engine manufacturers and consultants dealing with the development and implementation of aftertreatment systems in marine engines. Includes recent advances and future trends of marine engines Discusses new and innovative emission technologies for marine diesel engines and their regulations Covers aftertreatment technologies that are not widely applied, such as catalysts, SCR, DPF and plasmas

Vehicular particulate matter : characteristics, quantification, and control measures

Advances in Productive, Safe, and Responsible Coal Mining covers the latest advancements in coal mining technology and practices. It gives a comprehensive introduction to the latest research and technology developments, addressing problems and issues currently being faced, and is a valuable resource of complied technical information on the latest coal mining safety and health research. As coal's staying power has been at the forefront of the world's energy mix for more than a century, this book explores critical issues affecting coal mining, including how to maintain low-cost productivity, address health and safety hazards, and how to be responsible environmental stewards. This book takes a holistic approach in addressing each issue from the perspective of its impact on the coal mining operation and industry as a whole. Explains how to effectively produce coal within existing environmental constraints Encapsulates the latest health and safety research and technological advances in the coal mining industry Written by authors who have developed the latest technology for coal mines

Advanced Direct Injection Combustion Engine Technologies and Development

Describing novel methods and catalytic strategies to conserve and maintain air, water, and soil quality, researchers from a range of disciplines discuss the role of interface science in environmental remediation. They detail approaches to separate, reuse, recover, and treat potentially valuable materials using techniques in ion exchange and adsorption; develop and design new catalysts to enhance production, energy, and cost efficiency; and evaluate and improve existing treatment strategies for recycling of plastics and wastes. The 17 studies were developed from presentations at the symposium Application of Interface Science to Environmental Pollution Control (Chicago, August 2001).

Nanoparticle Emissions From Combustion Engines

Control systems have come to play an important role in the performance of modern vehicles with regards to meeting goals on low emissions and low fuel consumption. To achieve these goals, modeling, simulation, and analysis have become standard tools for the development of control systems in the automotive industry. Modeling and Control of Engines and Drivelines provides an up-to-date treatment of the topic from a clear perspective of systems engineering and control systems, which are at the core of vehicle design. This book has three main goals.

The first is to provide a thorough understanding of component models as building blocks. It has therefore been important to provide measurements from real processes, to explain the underlying physics, to describe the modeling considerations, and to validate the resulting models experimentally. Second, the authors show how the models are used in the current design of control and diagnosis systems. These system designs are never used in isolation, so the third goal is to provide a complete setting for system integration and evaluation, including complete vehicle models together with actual requirements and driving cycle analysis. Key features: Covers signals, systems, and control in modern vehicles Covers the basic dynamics of internal combustion engines and drivelines Provides a set of standard models and includes examples and case studies Covers turbo- and super-charging, and automotive dependability and diagnosis Accompanied by a web site hosting example models and problems and solutions Modeling and Control of Engines and Drivelines is a comprehensive reference for graduate students and the authors' close collaboration with the automotive industry ensures that the knowledge and skills that practicing engineers need when analysing and developing new powertrain systems are also covered.

Current Air Quality Issues

Collection of selected, peer reviewed papers from the 2013 2nd International Conference on Measurement, Instrumentation and Automation (ICMIA 2013), April 23-24, 2013, Guilin, China. Volume is indexed by Thomson Reuters CPCI-S (WoS). The 503 papers are grouped as follows: Chapter 1: Intelligent Electrician, Electricity Instruments; Chapter 2: Sensors and Navigation Engineering; Chapter 3: Control System Modeling, Simulation and Modelling Technology; Chapter 4: Fluid, Flow and Hydraulic Engineering, Control Technology; Chapter 5: Mechatronics; Chapter 6: Industrial Robot, Power Systems Engineering and Automation; Chapter 7: Auto Control System; Chapter 8: CAD / CAM / CAE and Related Modelling Technologies; Chapter 9: Electric, Electronic, Microelectronic, Embedded Systems and Engineering; Chapter 10: Communication and Wireless Engineering Technology; Chapter 11: Software Development, WEB-Service Engineering and Mathematical Modelling; Chapter 12: Information Technologies and Computer Applications in Industry and Engineering; Chapter 13: Network Engineering and Network Security; Chapter 14: The Internet of Things, PDM, ERP and Supply Chain Management.

The Ongoing Challenge of Managing Carbon Monoxide Pollution in Fairbanks, Alaska

This book focuses on various aspects related to air pollution, including major sources of air pollution, measurement techniques, modeling studies and solution approaches to control. The book also presents case studies on measuring air pollution in major urban areas, such as Delhi, India. The book examines vehicles as a source of air pollution and addresses the quantitative analysis of engine exhaust emissions. Subsequent chapters discuss particulate matter from engines and coal-fired power plants as a major pollutant, as well as emission control techniques using various after treatment systems. The book's final chapter considers future perspectives and a way forward for sustainable development. It also discusses several emission control techniques that will gain relevance in the future, when

stricter emission norms will be enforced for international combustion (IC) engines as well as power plants. Given its breadth of coverage, the book will benefit a wide variety of readers, including researchers, professionals, and policymakers.

Advances in Productive, Safe, and Responsible Coal Mining

Air pollution is thus far one of the key environmental issues in urban areas. Comprehensive air quality plans are required to manage air pollution for a particular area. Consequently, air should be continuously sampled, monitored, and modeled to examine different action plans. Reviews and research papers describe air pollution in five main contexts: Monitoring, Modeling, Risk Assessment, Health, and Indoor Air Pollution. The book is recommended to experts interested in health and air pollution issues.

New Trends in Emission Control in the European Union

The public health risks posed by automotive particulate emissions are well known. Such particles are sufficiently small to reach the deepest regions of the lungs; and moreover act as carriers for many potentially toxic substances. Historically, diesel engines have been singled out in this regard, but recent research shows the need to consider particulate emissions from gasoline engines as well. Already implicated in more than one respiratory disease, the strongest evidence in recent times points to particle-mediated cardiovascular disorders (strokes and heart attacks). Accordingly, legislation limiting particulate emissions is becoming increasingly stringent, placing great pressure on the automotive industry to produce cleaner vehicles - pressure only heightened by the ever-increasing number of cars on our roads. *Particulate Emissions from Vehicles* addresses a field of increased international interest and research activity; discusses the impact of new legislation globally on the automotive industry; and explains new ways of measuring particle size, number and composition that are currently under development. The expert analysis and summary of the state-of-the-art, which encompasses the key areas of combustion performance, measurement techniques and toxicology, will appeal to R&D practitioners and engineers working in the automotive industry and related mechanical fields, as well as postgraduate students and researchers of engine technology, air pollution and life/ environmental science. The public health aspects will also appeal to the biomedical research community.

Diesels in Underground Mines

This book provides a comparative analysis of both diesel and gasoline engine particulates, and also of the emissions resulting from the use of alternative fuels. Written by respected experts, it offers comprehensive insights into motor vehicle particulates, their formation, composition, location, measurement, characterisation and toxicology. It also addresses exhaust-gas treatment and legal, measurement-related and technological advancements concerning emissions. The book will serve as a valuable resource for academic researchers and professional automotive engineers alike.

Environmental Chemistry

Diesel engines, also known as CI engines, possess a wide field of applications as energy converters because of their higher efficiency. However, diesel engines are a major source of NOX and particulate matter (PM) emissions. Because of its importance, five chapters in this book have been devoted to the formulation and control of these pollutants. The world is currently experiencing an oil crisis. Gaseous fuels like natural gas, pure hydrogen gas, biomass-based and coke-based syngas can be considered as alternative fuels for diesel engines. Their combustion and exhaust emissions characteristics are described in this book. Reliable early detection of malfunction and failure of any parts in diesel engines can save the engine from failing completely and save high repair cost. Tools are discussed in this book to detect common failure modes of diesel engine that can detect early signs of failure.

Catalytic Air Pollution Control

Managing the nation's air quality is a complex undertaking, involving tens of thousands of people in regulating thousands of pollution sources. The authors identify what has worked and what has not, and they offer wide-ranging recommendations for setting future priorities, making difficult choices, and increasing innovation. This new book explores how to better integrate scientific advances and new technologies into the air quality management system. The volume reviews the three-decade history of governmental efforts toward cleaner air, discussing how air quality standards are set and results measured, the design and implementation of control strategies, regulatory processes and procedures, special issues with mobile pollution sources, and more. The book looks at efforts to spur social and behavioral changes that affect air quality, the effectiveness of market-based instruments for air quality regulation, and many other aspects of the issue. Rich in technical detail, this book will be of interest to all those engaged in air quality management: scientists, engineers, industrial managers, law makers, regulators, health officials, clean-air advocates, and concerned citizens.

Air Pollution and Control

Direct injection enables precise control of the fuel/air mixture so that engines can be tuned for improved power and fuel economy, but ongoing research challenges remain in improving the technology for commercial applications. As fuel prices escalate DI engines are expected to gain in popularity for automotive applications. This important book, in two volumes, reviews the science and technology of different types of DI combustion engines and their fuels. Volume 1 deals with direct injection gasoline and CNG engines, including history and essential principles, approaches to improved fuel economy, design, optimisation, optical techniques and their applications. Reviews key technologies for enhancing direct injection (DI) gasoline engines Examines approaches to improved fuel economy and lower emissions Discusses DI compressed natural gas (CNG) engines and biofuels

Reducing Particulate Emissions in Gasoline Engines

This book encompasses the current strategies and technologies used to reduce particulates to meet regulatory requirements and curtail health hazards --

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reviewing principles and applications of these techniques.

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