Handbook Of Aerosol Technology

Aerosol TechnologyAerosol Technology In Hazard EvaluationPrinciples of Aerosol TechnologyHandbook of Aerosol TechnologyPrinciples of Aerosol TechnologyAerosolsHandbook of Aerosol Technology. (First Edition Under TitleAerosol SciencePharmaceutical Inhalation Aerosol TechnologyHandbook on AerosolsPharmaceutical Inhalation Aerosol Technology, Second EditionAerosol Science and TechnologyPharmaceutical Inhalation Aerosol Technology, Third EditionAerosol Technology II Charges on AerosolsFunctional Materials and Advanced TechnologiesWho's who in Technology Today: IndexPractical basic knowledge regarding aerosol technologyMcGraw-Hill Yearbook of Science and TechnologyCurrent Awareness in Particle TechnologyApplied Science & Technology Index William C. Hinds Thomas Mercer Paul A. Sanders Paul Amsdon Sanders Paul Amsdon Sanders Igor Agranovski Paul Amsdon Sanders Ian Colbeck Anthony J. Hickey Richard Dennis Anthony J. Hickey David S. Ensor Anthony J. Hickey Theodore A. Rich Marina Polyakova Andreas Mauritz
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William C. Hinds Thomas Mercer Paul A. Sanders Paul Amsdon Sanders Paul Amsdon Sanders Igor Agranovski Paul Amsdon Sanders Ian Colbeck Anthony J. Hickey Richard Dennis Anthony J. Hickey David S. Ensor Anthony J. Hickey Theodore A. Rich Marina Polyakova Andreas Mauritz

aerosol technology an in depth and accessible treatment of aerosol theory and its applications the third edition of aerosol technology properties behavior and measurement

of airborne particles delivers a thorough and authoritative exploration of modern aerosol theory and its applications the book offers readers a working knowledge of the topic that reflects the numerous advances that have been made across a broad spectrum of aerosol related application areas new updates to the popular text include treatments of nanoparticles the health effects of atmospheric aerosols remote sensing bioaerosols and low cost sensors additionally readers will benefit from insightful new discussions of modern instruments the authors maintain a strong focus on the fundamentals of the discipline while providing a robust overview of real world applications of aerosol theory new exercise problems and examples populate the book which also includes thorough introductions to aerosol technology key definitions particle size shape density and concentration as well as the properties of gases comprehensive explorations of uniform particle motion particle size statistics and straight line acceleration and curvilinear particle motion practical discussions of particle adhesion brownian motion and diffusion thermal and radiometric forces and filtration in depth examinations of sampling and measurement of concentration respiratory deposition coagulation condensation evaporation and atmospheric aerosols perfect for senior undergraduate and junior graduate students of science and technology aerosol technology properties behavior and measurement of airborne particles will also earn a place in the libraries of professionals working in industrial hygiene air pollution control climate science radiation protection and environmental science

aerosol technology in hazard evaluation is the fifth in the series of books on the subject of aerosol technology this series is organized into nine chapters that cover the properties sampling and respirable activity of aerosol after briefly describing the nature of an inhalation hazard the book examines the properties measurement and significance of geometric diameters of aerosols as well as the shape factors relating them to various particulate properties the mathematical description of size distributions and the statistics of sampling from a lognormal distribution of particle sizes are provided considerable chapters deal with the methods of aerosol concentration measurement and geometric and aerodynamic size sampling operating characteristics of respirable aerosol activity samplers and their limitations are also examined the concluding chapter discusses problems in the production flow measurement apparatus calibration and isokinetic sampling of aerosols this series will provide a convenient source of information to those concerned in industrial

hygiene and will stimulate the interest of those involved in all phases of environmental health

this self contained handbook and ready reference examines aerosol science and technology in depth providing a detailed insight into this progressive field as such it covers fundamental concepts experimental methods and a wide variety of applications ranging from aerosol filtration to biological aerosols and from the synthesis of carbon nanotubes to aerosol reactors written by a host of internationally renowned experts in the field this is an essential resource for chemists and engineers in the chemical and materials disciplines across multiple industries as well as ideal supplementary reading in graduate level courses

aerosol science technology and applications aerosols influence many areas of our daily life they are at the core of environmental problems such as global warming photochemical smog and poor air quality they can also have diverse effects on human health where exposure occurs in both outdoor and indoor environments however aerosols can have beneficial effects too the delivery of drugs to the lungs the delivery of fuels for combustion and the production of nanomaterials all rely on aerosols advances in particle measurement technologies have made it possible to take advantage of rapid changes in both particle size and concentration likewise aerosols can now be produced in a controlled fashion reviewing many technological applications together with the current scientific status of aerosol modelling and measurements this book includes satellite aerosol remote sensing the effects of aerosols on climate change air pollution and health pharmaceutical aerosols and pulmonary drug delivery bioaerosols and hospital infections particle emissions from vehicles the safety of emerging nanomaterials radioactive aerosols tracers of atmospheric processes with the importance of this topic brought to the public s attention after the eruption of the icelandic volcano eyjafjallajökull this book provides a timely concise and accessible overview of the many facets of aerosol science

this fully revised and updated third edition of pharmaceutical inhalation aerosol technology encompasses the scientific and technical foundation for the rationale design componentry assembly and quality performance metrics of therapeutic inhalers in their delivery of pharmaceutical aerosols to treat symptoms or the underlying causes of disease it focuses on the importance of pharmaceutical engineering as a foundational element of all inhaler products and their application to pulmonary drug delivery the expanded scope considers

previously unaddressed aspects of pharmaceutical inhalation aerosol technology and the patient interface by including aerosol delivery lung deposition and clearance that are used as measures of effective dose delivery

here is a full understanding and correct application of scientific disciplines constituting the back bone of aerosol technology gaining knowledge from this handbook can help eradicate the severe problems of pollution that exist today the tremendous strides made in the environmental sciences relating the atmospheric contaminants concentration levels of biological effects the treatment of gaseous wastes the forecasting of pollution and visibility levels and the regulatory stance according to state and federal agencies for the control and reduced use of hazardous materials the reasons given 25 years ago for the preparation of a handbook on aerosols remain unchanged today if anything the pollution problems cited by h f johnstone in this preface to the 1950 publication are presently more severe atomic energy activities now constitute a larger part of the industrial domain because of the increase in nuclear fueled power stations fuel recovery and processing operations isotope manufacturer for industrial and medical applications and prospecting for mineral and fossil fuels the requirement that toxic particulates be removed from waste gas streams at high efficiency levels and the need to monitor the ambient atmosphere are now extended to almost all nonnuclear industries the tremendous strides made in the environmental sciences relating to the 1 identification and measurement of atmospheric contaminants 2 the biological effects studies suggesting permissible concentration levels 3 the development of advanced control systems for treating gaseous wastes 4 the combination of aerosol and meteorological sciences to effect improved forecasting of pollution and visibility levels and 5 the strong regulatory stance adopted by state and federal agencies with respect to control of source strengths and reduced use of hazardous material place extreme importance upon the full understanding and correct application of those scientific disciplines constituting the backbone of aerosol technology therefore the discussion and evaluation of relevant technical areas by highly qualified professional is even more appropriate today

this thoroughly revised and expanded reference provides authoritative discussions on the physiologic pharmacologic metabolic molecular cellular and physicochemical factors influencing the efficacy and utilization of pharmaceutical aerosol it analyzes the latest science and developments in the generation administration and characterization of these

compounds showcasing current clinical applications the efficiency and limitations of major aerosol products and emerging aerosol therapies impacting the field

aerosol science and technology history and reviews captures an exciting slice of history in the evolution of aerosol science it presents in depth biographies of four leading international aerosol researchers and highlights pivotal research institutions in new york minnesota and austria one collection of chapters reflects on the legacy of the pasadena smog experiment while another presents a fascinating overview of military applications and nuclear aerosols finally prominent researchers offer detailed reviews of aerosol measurement processes experiments and technology that changed the face of aerosol science this volume is the third in a series and is supported by the american association for aerosol research aaar history working group whose goal is to produce archival books from its symposiums on the history of aerosol science to ensure a lasting record it is based on papers presented at the third aerosol history symposium on september 8 and 9 2006 in st paul minnesota usa

this fully revised and updated third edition of pharmaceutical inhalation aerosol technology encompasses the scientific and technical foundation for the rationale design componentry assembly and quality performance metrics of therapeutic inhalers in their delivery of pharmaceutical aerosols to treat symptoms or the underlying causes of disease it focuses on the importance of pharmaceutical engineering as a foundational element of all inhaler products and their application to pulmonary drug delivery the expanded scope considers previously unaddressed aspects of pharmaceutical inhalation aerosol technology and the patient interface by including aerosol delivery lung deposition and clearance that are used as measures of effective dose delivery key features provides a thoroughly revised and expanded reference with authoritative discussions on the physiologic pharmacologic metabolic molecular cellular and physicochemical factors influencing the efficacy and utilization of pharmaceutical aerosols emphasizes the importance of pharmaceutical engineering as a foundational element of all inhaler products and their application to pulmonary drug delivery addresses the physics chemistry and engineering principles while establishing disease relevance expands the technology focus of the original volumes to address the title more directly offers an impressive breadth of coverage as well as an international flavour from outstanding editors and contributors

the treatment of fine particle and ion behavior here used is partial and pragmatic a voluminous and sometimes confusing literature is available which will repay the effort of studying it it should not be expected that any theory is better than the assumptions on which it is based and on the accuracy with which the necessary parameters are known the ephemeral nature of aerosols and their infinite variety should make one more surprised at the general accord with theory than at the occasional apparently erratic misbehavior few people have worked with aerosols without the chagrin of predicting not only the wrong magnitude of an expected change but the wrong sign of the change as well author

4th international conference on smart materials technologies 4th icsmt and 4th international conference on advanced functional materials 4th icafm

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