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Research Project Biennial Report Proceedings of the Petroleum Hydrocarbons and Organic Chemicals in Ground Water: Prevention, Detection, and Remediation Conference *William W Nazaroff National Academies of Sciences, Engineering, and Medicine Getty Conservation Institute. Scientific Program William W. Nazaroff Lev S. Ruzer Yinping Zhang The Getty Conservation Institute Tracy Lynn Thatcher California Institute of Technology. Division of Engineering and Applied Science Garvin Adair Heath Southern California Coastal Water Research Project Neil Edward Klepeis Tyler Hicks Southern California Coastal Water Research Project*

the u s environmental protection agency epa defines pm as a mixture of extremely small particles and liquid droplets comprising a number of components including acids such as nitrates and sulfates organic chemicals metals soil or dust particles and allergens such as fragments of pollen and mold spores the health effects of outdoor exposure to particulate matter pm are the subject of both research attention and regulatory action although much less studied to date indoor exposure to pm is gaining attention as a potential source of adverse health effects indoor pm can originate from outdoor particles and also from various indoor sources including heating cooking and smoking levels of indoor pm have the potential to exceed outdoor pm levels understanding the major features and subtleties of indoor exposures to particles of outdoor origin can improve our understanding of the exposure response relationship on which ambient air pollutant standards are based the epa s indoor environments division commissioned the national academies of sciences engineering and medicine to hold a workshop examining the issue of indoor exposure to pm more comprehensively and considering both the health risks and possible intervention strategies participants discussed the ailments that are most affected by particulate matter and the attributes of the exposures that are of greatest concern exposure modifiers vulnerable populations exposure assessment risk management and gaps in the science this report summarizes the presentations and discussions from the workshop

presents a detaild overview of the activites and publications of the gci scientific program covering the period 1984 1994

with the rapid growth of the nanotechnology industry the need to understand the biological effects of aerosol exposure has become increasingly important featuring contributions by leading experts in the field aerosols handbook measurement dosimetry and health effects second edition offers an up to date overview of many aspects of aerosols from properties to health effects and epidemiology covering indoor outdoor industrial medical pharmaceutical and radioactive aerosols this book explores aerosol dosimetry by defining

terms such as exposure and dose in addition it looks at nanometer particles the mechanism of aerosol deposition in the lungs and modeling deposition with a corresponding uncertainty in risk assessment the text also emphasizes the importance of accurate aerosol measurements particularly breathing zone exposure assessments examining radioactive aerosols the book discusses lessons learned from nuclear accidents radon and thoron and long lived radionuclides in the environment it brings together research on both radioactive and nonradioactive aerosols supplying readers with a more complete view of how aerosols behave in the lungs new in this edition five new chapters that address the safety of nanomaterials dealing with nanoparticle cell penetration high aspect ratio nanomaterials nanoaerosols in drug delivery risk assessment and health effects new chapters on atmospheric pollution related to climate change chemical analyses of particle filter deposits and classical nucleation theory new data on measurement dosimetry and health effects updated throughout this second edition continues to be an essential resource for those who study exposure dosages and toxicity to develop treatments for exposure reduce air pollution and establish better safety regulations particularly in industries using nanotechnologies

people live in indoor environment about 90 of lifetime and an adult inhales about 15 kg air each day over 75 of the human body s daily mass intake air food water therefore indoor air quality iaq is very important to human health this book provides the basic knowledge of iaq and highlights the research achievements in the past two decades it covers the following 12 sections introduction indoor air chemicals indoor air particles measurement and evaluation source sink characteristics indoor chemistry human exposure to indoor pollutants health effects and health risk assessment iaq and cognitive performance standards and guidelines iaq control and air quality in various indoor environments it provides a combination of an introduction to various aspects on iaq studies the current state of knowledge various advances and the perspective of iaq studies it will be very helpful for the researchers and technicians in the iaq and the related fields it is also useful for experts in other fields and general readers who want to obtain a basic understanding of and research advances in the field of iaq a group of experts in iaq research have been recruited to write the chapters their research interests and experience cover the scope of the book in addition some experienced experts in iaq field have been invited as advisors or reviewers to give their comments suggestions and revisions on the handbook framework and the chapter details their contribution guarantees the quality of the book we are very grateful to them last but not least we express our heartfelt thanks to prof spengler harvard university for writing the foreword of the current handbook of indoor air quality both as a pioneer

scientist who contributed greatly to indoor air science and as an editor in chief of handbook of indoor air quality 2001 1st ed new york mcgraw hill in addition to hard copies the book is also published online and will be updated by the authors as needed to keep it aligned with current knowledge these salient features can make the handbook fresh with the research development

this study represents the latest in a series of research activities aimed at a better understanding of the origin and fate of air pollution within the built environment most previous studies of air pollution in cultural institutions have focused on gases particles were ignored for many reasons they seemed to be more easily removed by the building gaseous air pollutants had been well studied by industry and their effects on commercial products were heavily documented and many particle types were considered chemically benign to almost all surfaces even carbon black which is now known to pose enormous degradation risks to the optical and color qualities of paintings and tapestries is almost totally inert recognizing this and understanding that we needed to know much more about the physics of particle intrusion in museum buildings in 1987 the environmental engineering lab at the california institute of technology under contract to the getty conservation institute began a detailed examination of five different museums in southern california these structures represent a diverse range of architectural and ventilation types through this study a powerful computer model was developed that could predict the soiling effects of changes made to the operation or maintenance of a building this model can even be used to estimate the soiling rates of new buildings or major rehabilitations before any construction work is begun this is an important contribution to both the conservation community and the broader field of air quality science

vols 8 10 of the 1965 1984 master cumulation constitute a title index

now substantially revised and improved this invaluable handbook provides engineers and technicians with more than 5 000 direct and related calculations for solving day to day problems quickly and easily the book covers 13 disciplines including civil architectural mechanical electrical electronics control marine and nuclear engineering enabling readers to become familiar with procedures in fields apart from their own the third edition features a major new section on environmental engineering plus increased emphasis on environmental factors in the other 12 disciplines

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