New York State Department Of Health Indoor Air Quality

Guidelines For Monitoring Indoor Air QualityIndoor Air QualityIndoor Air PollutionIndoor Air QualityIndoor Environmental QualityCauses of Poor Indoor Air Quality and what You Can Do about itChemical, Microbiological, Health and Comfort Aspects of Indoor Air Quality - State of the Art in SBSHow Indoor Air Quality Affects Your Health (Easyread Large Bold Edition)Indoor Air PollutionIndoor Environmental Quality and Health Risk toward Healthier Environment for AllIndoor Air QualityWho Suffers from Indoor Air Pollution?Measuring Indoor Air QualityIndoor Air PollutionIndoor Air Quality ResearchIndoor Air Quality EngineeringIndoor Air Quality & Human HealthIndoor Air Quality for Poor FamiliesChemistry, Emission Control, Radioactive Pollution and Indoor Air QualityHandbook of Indoor Air Quality Niren Laxmichand Nagda Dikaia E. Saraga Peter Pluschke M. Maroni Arun Sharma Nellie J. Brown Helmut Knöppel Manfred Kaiser Peter Pluschke Reiko Kishi Phillip J. Walsh John E. Yocom Richard A. Wadden United States. Congress. House. Committee on Science and Technology. Subcommittee on Energy Development and Applications Robert Jennings Heinsohn Isaac Turiel Nicolas Mazzeo Yinping Zhang

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the monitoring of indoor air pollutants in a spatio temporal basis is challenging a key element is the access to local i e indoor residential workplace or public building exposure measurements unfortunately the high cost and complexity of most current air pollutant monitors result in a lack of detailed spatial and temporal resolution as a result individuals in vulnerable groups children pregnant elderly and sick people have little insight into their personal exposure levels this becomes significant in cases of hyper local variations and short term pollution events such as instant indoor activity e g cooking smoking and dust resuspension advances in sensor miniaturization have encouraged the development of small inexpensive devices capable of estimating pollutant concentrations this new class of sensors presents new possibilities for indoor exposure monitoring this special issue invites research in the areas of the triptych indoor air pollution monitoring indoor air modeling and exposure to indoor air pollution topics of interest for the special issue include but are not limited to the following low cost sensors for indoor air monitoring indoor particulate matter and volatile organic compounds ozone terpene chemistry biological agents indoors source apportionment exposure assessment health effects of indoor air pollutants occupant perception climate change impacts on indoor air quality

this second edition offers a comprehensive overview of the priority indoor air pollutants such as volatile organic compounds indoor particles and fibres combustion products and other chemical agents that may affect health it includes updated reviews with a focus on emission processes and on the large variety of volatile organic pollutants it also introduces new topics such as reflections on the shift in human health from infection related diseases to chronic illnesses and the significance of indoor chemical exposure the authors provide insights into different cultural settings and their consequences for indoor air quality further the book briefly discusses building certification as a market oriented tool to improve energy efficiency and indoor air quality in the building sector it appeals to public health specialists scientists graduate students in the field of environmental sciences decision makers in government regulatory bodies and the construction industry and facility managers

people spend most of their time indoors and indoor air pollutants can cause both long and short term health effects awareness of indoor air pollution as an environmental issue however is relatively new this book has been prepared to offer an up to date comprehensive reference manual on indoor air quality to scientists and professionals active in this area the intention of the book is to bring together a collection of contributions from specialists in the specific disciplines of indoor air quality covering all points of view from various angles from building design and building sciences to health effects and medical diagnosis toxicology of indoor air

pollutants and air sampling and analysis one of the characteristics of this book is the multidisciplinary approach that integrates the expertise of medical doctors architects engineers chemists biologists physicists and toxicologists the resulting product is of great educational value and recommended for consultation as well as teaching purposes the panel of conrtibuting authors includes top experts on indoor air worldwide who have participated in international workshops and led the development of indoor air sciences over the recent years

this volume presents selected papers presented during the first asian conference on indoor environmental quality acieq the contents cover themes of indoor air quality monitoring and modeling the influence of confounding factors like thermal comfort parameters such as temperature and relative humidity with respect to different building types e g residential commercial institutional ventilation characteristics lighting and acoustics it also focuses on people s performance productivity and behavior with respect to their exposure to various indoor air pollutants and parameters influencing the overall indoor environmental quality this volume is primarily aimed at researchers working in environmental science and engineering building architecture and design hvac and ventilation public health and epidemiology the contents of this volume will also be useful to policy makers working on occupational health and building codes

interest in indoor air quality iaq is growing at public political and scientific levels complaints about poor iaq associated with acute symptoms such as mucous irritation headaches and bad odor occur frequently particularly in the office environment where typical patterns of symptoms often occur leading to the coining of the term sick building syndrome in the present book internationally known experts address the following issues the dynamics of the indoor environment and strategies for indoor measurement chemical and microbiological pollution important species sources and detection methods effects of indoor pollution in particular sensory irritation including odor airway eye and skin irritation by organic indoor pollutants and their assessment immune effects including allergic sensitization chemical hyper responsiveness controlled human reactions to organic pollutants building investigation approaches and results source characterization and control criteria norms and techniques in indoor air pollution and regulatory aspects the complex multifactorial nature of sick building syndrome requires multidisciplinary collaboration from very diverse fields it is evident that communication between researchers coming from very different areas all speaking their own language is a difficult task this book presenting as it does the state of the art on sick buildings and how to cure them is a sound foundation on which to build for the future

indoor air pollution has become a major topic in environmental research and health most people spend more than 80 of their time in buildings and are exposed to a broad range of pollutants from indoor sources such as building materials furniture carpets and textiles heating and cooking household and consumer products etc the volume provides a comprehensive review of the major indoor air pollutants volatile organic compounds biocides indoor particles and fibres combustion products and micro organisms and their metabolites sources and sinks of air pollutants in indoor environments and their chemistry are distinctly different from ambient air pollution even though the latter may influence indoor air quality adsorption and desorption processes the pollutant source dynamics gas phase reactions and kinetics including the fate and final chemical destiny of chemically unstable intermediate compounds are topics of scientific research as well as the evaluation of their sensory impact and irritation potential guidelines for assessing indoor pollution and a broad range of analytical methods have been recently developed and are reviewed by internationally renowned scientists the specific characteristics of indoor air pollution in developing countries due to the widespread use of open fires for cooking heating and lighting are analysed as well as the chinese strategies to address the growing pollution problems by air pollution in its modern building stock

this volume discusses the effects of indoor air environment and pollution in modern buildings on human health highlighting epidemiological studies and the determining factors it offers proposals for improving indoor air quality iaq in different environments focusing not only on homes and offices but also vehicles and aircrafts it details practical methods of measuring and assessing indoor air quality written by pioneering researchers indoor environmental quality and health risk toward healthier environment for all is a valuable resource for both new and established researchers as well as students seeking a comprehensive overview of the facts on indoor air quality and health also is also of interest to hygiene experts in industry occupational health and safety professionals governmental public health sectors and school physicians

indoor air quality presents usable data and information on a range of subjects from legislation to emission and ventilation rates in tabular graphical or schematic forms each chapter is thoroughly referenced so that readers can seek original documents as desired this single volume collects the expertise of researchers in a range of disciplines and presents it in a manner that is understandable to all professional working in the area readers have the opportunity to learn how chemists biologists physicists engineers physicians epidemiologists environmentalists toxicologists and public health scientists are contributing to the study of indoor air quality

with all the emphasis on atmospheric air pollution and efforts to control it we forget that most of us spend much of our lives indoors where air quality is quite different and often much worse than that outdoors addresses the recent rapid expansion of interest in indoor air quality and its contribution to total human exposure to air pollutants by presenting past and present developments and also the directions that the field seems to be taking

shows how to evaluate and control the indoor air pollution and health hazards caused by reduced ventilation energy saving measures and other factors presents state of the art information on indoor pollution hazards including the chemicals and chemical compounds commonly found in indoor air pollution their sources and health effects also discusses methods for measuring indoor air pollutants predictive models and methods for attaining and maintaining optimal indoor air quality emphasizes the indoor air environment of domestic and public buildings but offers techniques applicable to any indoor space

written by experts indoor air quality engineering offers practical strategies to construct test modify and renovate industrial structures and processes to minimize and inhibit contaminant formation distribution and accumulation the authors analyze the chemical and physical phenomena affecting contaminant generation to optimize system function and design improve human health and safety and reduce odors fumes particles gases and toxins within a variety of interior environments the book includes applications in microsoft excel mathcad and fluent for analysis of contaminant concentration in various flow fields and air pollution control devices

first published in 1985 this book seeks to fill the gap of publicly available and understandable information on the subject of indoor air pollution and its public health effects its purpose is to provide general information on indoor air pollution sources and the pollutants commonly found indoors and also to explore the potential health effects arising from exposure to these pollutants

indoor air pollution iap from cooking and heating is estimated to kill a million children annually in developing countries to promote a better understanding of iap the authors investigate the determinants of iap in bangladesh using the latest air monitoring technology and a national household survey the study concludes that iap is dangerously high for many poor families in bangladesh concentrations of respirable airborne particulates pm10 300 ug m3 or greater are common in the sample implying widespread exposure to a serious health hazard

the atmosphere may be our most precious resource accordingly the balance between its use and protection is a high priority for our civilization while many of us would consider air pollution to be an issue that the modern world has resolved to a greater extent it still appears to have considerable influence on the global environment in many countries with ambitious economic growth targets the acceptable levels of air pollution have been transgressed serious respiratory disease related problems have been identified with both indoor and outdoor pollution throughout the world the 25 chapters of this book deal with several air pollution issues grouped into the following sections a air pollution chemistry b air pollutant emission control c radioactive pollution and d indoor air quality

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

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