

**H.E. Burroughs, CIAQP**  
**Shirley J. Hansen, Ph.D.**

*Managing*  
INDOOR  
AIR  
QUALITY  
FIFTH EDITION



**River Publishers**

# Managing Indoor Air Quality

**Shirley J. Hansen**



## **Managing Indoor Air Quality:**

Managing Indoor Air Quality H. E. Burroughs, Shirley J. Hansen, 2004 This practical desk reference is structured to serve as a guide and information resource both on treating existing indoor air problems effectively and on prevention costly IAQ problems from occurring in the first place Finding solutions to indoor air quality problems is often a complex multifaceted multidisciplined endeavor A single discipline approach from the environmental engineer the industrial hygienist or the medical doctor unfortunately tends to narrow both the control and the treatment options This book cuts across these professions without being limited by the specificity and bias of any one discipline to offer those concerned with the total facility a broader more comprehensive approach to managing indoor air quality and mitigating indoor air quality problems The third edition has undergone extensive updates and editing in response to the rapid pace of changes and advances in the IAQ industry most notably the new chapter on building security and the increased emphasis on mold related issues Jacket

**Managing Indoor Air Quality, Third Edition** H.E. Burroughs, Shirley J. Hansen, 2004-08-02 For the building owner administrator or facilities manager who must deal with the realities of today's indoor environmental concerns this fully updated reference is a practical hands on guide You'll find readily applicable air quality control measures and preventative strategies that can head off the headaches both economic and legal that can grow out of an air quality problem You'll also learn the critical aspects of complete response and step by step investigation tactics and tools Specific symptoms of building associated illnesses are detailed along with practical guidelines for identifying and controlling the associated pollutant or source of the problem

**Managing Indoor Air Quality, Fifth Edition** H.E. Burroughs, Shirley J. Hansen, 2020-12-17 Finding solutions to indoor air quality problems is often a complex multifaceted endeavor This practical desk reference serves as a guide and information resource both on treating existing indoor air problems effectively and on preventing costly IAQ problems from occurring in the first place A single discipline approach unfortunately tends to narrow both the control and the treatments options This book cuts across professions to offer those concerned with the total facility a broader more comprehensive approach to managing indoor air quality and mitigating indoor air quality problems The fifth edition is extensively updated and edited in response to the rapid pace of changes and advances in the IAQ industry

Managing Indoor Air Quality, Fourth Edition H.E. Burroughs, Shirley J. Hansen, 2008-04-03 Finding solutions to indoor air quality problems is often a complex multifaceted endeavor This practical desk reference serves as a guide and information resource both on treating existing indoor air problems effectively and on preventing costly IAQ problems from occurring in the first place A single discipline approach unfortunately tends to narrow both the control and the treatments options This book cuts across professions to offer those concerned with the total facility a broader more comprehensive approach to managing indoor air quality and mitigating indoor air quality problems The third edition is extensively updated and edited in response to the rapid pace of changes and advances in the IAQ industry

*A Guide to Managing Indoor Air Quality in Health Care*

*Organizations* Joint Commission on Accreditation of Healthcare Organizations, 1997-01-01 **Managing Indoor Air Quality** Shirley J. Hansen, 1991 For the building owner administrator or facilities manager who must deal with the realities of today's indoor air quality concerns this outstanding new reference will serve as a practical hands on guide You'll find readily applicable air quality control measures preventive strategies that can head off the headaches both economic legal that can grow out of an air quality problem You'll also learn the critical aspects of complaint response step by step investigation Indoor air quality issues affecting offices schools businesses from the front office to the boiler room are examined from a management perspective Specific symptoms of building associated illnesses are detailed along with practical guidelines for identifying removing the associated pollutant or source of the problem Management of Indoor Air Quality Marzenna R. Dudzinska, 2011-06-07 Due to changes in lifestyle people spend more time indoors This refers not only to the time spent at home and at office premises but also in shopping malls recreation centers and transport vehicles Concentrations of many pollutants are higher indoors than they are outdoors Consequently the indoor environment has a bigger impact on human health Pilot Study on Indoor Air Quality, 1990 **Managing Indoor Air Quality** Nisrine Mohammed El-Hougeiri, 2001 Based on the modeling results occupational exposures to smoking emitted pollutants resulted in health effects that range between simple headache to cancer risk The indoor environment cannot be separated from its surrounding outdoor Accordingly any management plan for alleviating the problem of indoor air pollution should include strategies to lower the effects of outdoor pollution sources especially vehicle induced emissions and particulate emitted from construction activities No single mitigation strategies can be used to improve IAQ A combination of strategies are needed for this purpose

**Principles of Air Quality Management** Roger D. Griffin, 2016-04-19 Blending information from popular mainstream articles highly technical publications and research journals the second edition of Principles of Air Quality Management features new sections on air toxics new information on chronic and acute health effects and new approaches to the assessment of those impacts on sensitive populations It emphasizes **Air Pollution: Science, Engineering and Management Fundamentals** Mukesh Khare, Prateek Sharma, Sri Harsha Kota, Sumanth Chinthala, 2024-09-10 This comprehensive and up to date textbook discusses fundamental aspects of air pollution with the help of solved and case examples within the chapter and review questions at the end of each chapter The textbook discusses in depth the entire domain of air pollution from the fundamentals sources types effects associated risks ecology meteorology climatology sampling monitoring and instrumentation laboratory quality control data analysis and interpretation modelling control technologies and indoor air pollution to the latest principles of air quality management and legislation regulations and standards This book Covers fundamentals of air pollution the atmosphere air pollution meteorology effects and control of air pollution Discusses engineering aspects of air quality management and includes concepts of ecology growth and sustainable development in the context of air pollution Explains air pollution mitigation philosophies legislation regulations and standards Comprehensively

discusses topics including air quality monitoring sampling air quality modelling and air quality data analysis Includes case examples for better understanding of the topics and solution manual for the benefit of instructors The text will be useful for senior undergraduate and post graduate students in the fields of science and engineering Pedagogical features including solution manual will be uploaded on the website

**Guidelines for Managing Indoor Air Quality** Minnesota. Department of Administration. Facilities Management Bureau, Minnesota. Department of Administration. Building Construction Division, Minnesota. Department of Employee Relations. Safety and Industrial Hygiene Unit, 1996 *Managing Indoor Air Quality* Shirley J. Hansen, 1999 You ll find readily applicable air quality control measures and preventative strategies that can head off the headaches both economic and legal that can grow out of an air quality problem You ll also learn the critical aspects of complete response and step by step investigation tactics and tools Specific symptoms of building associated illnesses are detailed along with practical guidelines for identifying and controlling the associated pollutant or source of the problem The revised second edition provides you with the results of a decade of new indoor air quality research and experience as well as updated references and contacts an update on standards a new chapter on filtration the latest research results on causes of indoor air quality problems and innovative new investigation strategies Indoor Air, 1989 Indoor Air Quality M. Maroni, B. Seifert, T. Lindvall, 1995-08-16 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 contributing 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 *EPA Indoor Air Quality Implementation Plan*, 1987 **Indoor Air Pollution Control** Thad Godish, 2019-07-23 This is an all new book designed to provide you the practical information and data you need for indoor air pollution control Presented early in the book is theory as support for the applications that follow including a synthesized review of the significant literature on controlling air pollution Practical applications largely from the author s own experience deal with 1 How to conduct indoor air quality investigations in both residences and public access buildings 2 Indoor air quality mitigation practice and 3 Case histories This book will be very useful to consultants and other professionals who grapple to solve real world problems And it will make an excellent textbook for new courses in indoor air quality Indoor Air

Pollution Control will be used for control and prevention of contaminated air in homes apartment buildings office buildings large and small hospitals auditoriums and other public buildings

### **Managing the Health Risks of Climate Change**

Kurebwa, Jeffrey, Makwerere, David, 2024-11-29 Climate change presents a fundamental threat to human health It has affected the physical environment and all aspects of both natural and human systems It is therefore a threat multiplier undermining and potentially reversing health progress made during the last three decades As climatic conditions change more frequent and intensifying weather and climate events are observed such as storms extreme heat floods droughts and wildfires These weather and climate hazards affect health both directly and indirectly increasing the risk of deaths non communicable diseases the emergence and spread of infectious diseases and health emergencies Managing these health risks requires coordinated global efforts to strengthen public health systems and build resilience in vulnerable communities Managing the Health Risks of Climate Change provides new evidence on the health risks posed by climate change offering a comprehensive analysis of how environmental changes are impacting human health It further explores emerging strategies for managing these risks highlighting innovative approaches to adaptation mitigation and the strengthening of health systems to better prepare for and respond to climate related health challenges Covering topics such as air conditioning persons with disabilities and women s health this book is an excellent resource for academicians researchers policymakers health practitioners and more

**Air Pollution** Bhola R. Gurjar, Luisa T. Molina, C.S. P. Ojha, 2010-06-22 Air pollution is recognized as one of the leading contributors to the global environmental burden of disease even in countries with relatively low concentrations of air pollution Air Pollution Health and Environmental Impacts examines the effect of this complex problem on human health and the environment in different settings around the world I

**An Office Building Occupant's Guide to Indoor Air Quality**, 1997

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## **Managing Indoor Air Quality Introduction**

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