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**A collection of symposium papers covering all major aspects of mining and related disciplines. Topics include: mining science; environmental and safety technology; mine control; automation and mechanization; mining geomechanics; mine construction and engineering; and coal processing.**

**This two-volume set (LNAI 11683 and LNAI 11684) constitutes the refereed proceedings of the 11th International Conference on Computational Collective Intelligence, ICCCI 2019, held in Hendaye France, in September**

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**2019. The 117 full papers presented were carefully reviewed and selected from 200 submissions. The papers are grouped in topical sections on: computational collective intelligence and natural language processing; machine learning in real-world data; distributed collective intelligence for smart manufacturing; collective intelligence for science and technology; intelligent management information systems; intelligent sustainable smart cities; new trends and challenges in education: the university 4.0; intelligent processing of multimedia in web systems; and big data streaming, applications and security.**

**Chemical process quantitative risk analysis (CPQRA) as applied to the**

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**CPI was first fully described in the first edition of this CCPS Guidelines book. This second edition is packed with information reflecting advances in this evolving methodology, and includes worked examples on a CD-ROM. CPQRA is used to identify incident scenarios and evaluate their risk by defining the probability of failure, the various consequences and the potential impact of those consequences. It is an invaluable methodology to evaluate these when qualitative analysis cannot provide adequate understanding and when more information is needed for risk management. This technique provides a means to evaluate acute hazards and alternative risk reduction strategies, and identify**

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**areas for cost-effective risk reduction. There are no simple answers when complex issues are concerned, but CPQRA2 offers a cogent, well-illustrated guide to applying these risk-analysis techniques, particularly to risk control studies. Special Details: Includes CD-ROM with example problems worked using Excel and Quattro Pro. For use with Windows 95, 98, and NT.**

**27th International Conference on  
Passive and Low Energy**

**Architecture**

**Air Pollution Abstracts**

**Hazard Identification and Risk  
Assessment**

**White Sands Missile Range, Range  
Wide EIS**

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## **Energy Research Abstracts**

## **Energy and First Costs Analysis of Displacement and Mixing Ventilation Systems for U.S.**

## **Buildings and Climates**

**Qualitative research, once on the fringes, now plays a central part in advancing nursing and midwifery knowledge, contributing to the development of the evidence base for healthcare practice. Divided into four parts, this authoritative handbook contains over forty chapters on the state of the art and science of qualitative research in nursing. The first part begins by addressing the significance of qualitative**

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inquiry to the development of nursing knowledge, and then goes on to explore in depth programs of qualitative nursing research. The second section focuses on a wide range of core qualitative methods, from descriptive phenomenology, through to formal grounded theory and to ethnography, and narrative research. The third section highlights key issues and controversies in contemporary qualitative nursing research, including discussion of ethical and political issues, evidence-based practice and Internet research. The final section takes a unique look at

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qualitative nursing research as it is practiced throughout the world with chapters on countries and regions from the UK and Europe, North America, Australasia, Latin America, to Japan, China, and Korea. With an international selection of established scholars contributing, this is an essential overview and will help to propel qualitative research in nursing well into the twenty-first century. It is an invaluable reference for all nursing researchers. In v.1-8 the final number consists of the Commencement annual.

**Industrial Ventilation**

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**Design Guidebook, Volume 2: Engineering Design and Applications** brings together researchers, engineers (both design and plants), and scientists to develop a fundamental scientific understanding of ventilation to help engineers implement state-of-the-art ventilation and contaminant control technology. Now in two volumes, this reference contains extensive revisions and updates as well as a unique section on best practices for the following industrial sectors: Automotive; Cement; Biomass Gasifiers; Advanced Manufacturing; Industrial 4.0); Non-ferrous Smelters;



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**Lime Kilns; Pulp and Paper; Semiconductor Industry; Steelmaking; Mining. Brings together global researchers and engineers to solve complex ventilation and contaminant control problems using state-of-the-art design equations Includes an expanded section on modeling and its practical applications based on recent advances in research Features a new chapter on best practices for specific industrial sectors**

**The Quantitative and Qualitative Analysis of Microorganisms Emitted from the Arms and Hands of Dairy Plant Personnel**

**Organising Knowledge**

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## **Modeling and Computation in Engineering II Environmental Health and Control of Indoor Pollutants Risk Analysis Atucha II**

Patty's Industrial Hygiene, 4-Volume  
Set John Wiley & Sons

The content of this book covers several up-to-date topics in fluid dynamics, computational modeling and its applications, and it is intended to serve as a general reference for scientists, engineers, and graduate students. The book is comprised of 30 chapters divided into 5 parts, which include: winds, building and risk prevention; multiphase flow, structures and gases; heat transfer, combustion and energy; medical and biomechanical applications; and other important themes. This book also provides a comprehensive overview of

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computational fluid dynamics and applications, without excluding experimental and theoretical aspects. Examines the use of practical techniques to implement process safety in new and existing plants. The author's incident scenario model enables selection of a suitable hazard identification technique. Pre-Hazop and Hazop techniques are explained in detail and demonstrated by case studies.

Energy Policy Instruments and Technical Change in the Residential Building Sector  
Mining Science and Technology 1996  
DHHS Publication No. (NIOSH).  
ERDA Energy Research Abstracts  
Methods and Case Studies  
Air Change Rate and Airtightness in Buildings  
Modeling and Computation in Engineering II (CMCE 2013, Hong Kong, 22-23 June 2013) includes

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50 contributions on modeling and simulation technology, which were presented at the 2nd SREE Conference on Modeling and Computation in Engineering (CMCE 2013) and the 3rd SREE Workshop on Applied Mechanics and Civil Engineering (AMCE 2013), both held in Hong Kong, 22-23 June 2013 . The topics covered include: - Modeling technology - Simulation technology and tools - Computation methods and their engineering applications - Mechanics in engineering Modeling and Computation in Engineering II reviews recent advances in multiple areas, including applied mechanics & civil engineering, modeling & simulation in engineering, design

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theories, construction science and advanced material applications in building structures, underground structures, bridge structures, hydraulic engineering, municipal engineering, port and coastal engineering, road and transportation engineering, and will be invaluable to academics and professional interested in civil, hydraulic and mechanical engineering.

This book of Proceedings presents the latest thinking and research in the rapidly evolving world of architecture and sustainable development through 255 selected papers by authors coming from over 60 countries.

Indoor Air Quality Engineering

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covers a wide range of indoor air quality engineering principles and applications, providing guidelines for identifying and analyzing indoor air quality problems as well as designing a system to mitigate these problems. Structured into three sections - properties and behavior of airborne pollutants, measurement and sa

Hearing Before the Subcommittee on Aviation of the Committee on Public Works and Transportation, House of Representatives, One Hundred Third Congress, Second Session, May 18, 1994

Patty's Industrial Hygiene, 4-Volume Set

Fluid Dynamics, Computational Modeling and Applications

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Inventory of Federal Energy-related  
Environment and Safety Research  
for FY 1979

Cumulated Index Medicus

Airliner Cabin Air Quality

Energy performance policy in the building sector - such as is described by EU Directive known as EPBD - has the aim of reducing energy consumption in buildings. Given the importance of the development of innovations in energy technology, and a transition to a sustainable energy supply system, it is necessary that policy instruments for energy conservation in the building sector stimulate the development and diffusion of innovations. This publication contributes to

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knowledge about the content of energy performance policy and concludes that the effect of energy performance policy in encouraging innovation is limited. The study of the innovation system of the Dutch construction industry identifies how the project-based nature of the construction industry is an obstacle to "learning-rich" collaboration between the various stakeholders. The study contributes to the discussion about the impact of government policy for energy conservation in the building sector, in the context of climate change policy.

Everyday we face decisions that carry an element of risk and



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uncertainty. The ability to analyze, predict, and prepare for the level of risk entailed by these decisions is, therefore, one of the most constant and vital skills needed for analysts, scientists and managers. Risk analysis can be defined as a systematic use of information to identify hazards, threats and opportunities, as well as their causes and consequences, and then express risk. In order to successfully develop such a systematic use of information, those analyzing the risk need to understand the fundamental concepts of risk analysis and be proficient in a variety of methods and techniques. Risk Analysis adopts a practical, predictive

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approach and guides the reader through a number of applications.

**Risk Analysis:** Provides an accessible and concise guide to performing risk analysis in a wide variety of fields, with minimal prior knowledge required. Adopts a broad perspective on risk, with focus on predictions and highlighting uncertainties beyond expected values and probabilities, allowing a more flexible approach than traditional statistical analysis.

Acknowledges that expected values and probabilities could produce poor predictions - surprises may occur.

Emphasizes the planning and use of risk analyses, rather than just the risk analysis methods and

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techniques, including the statistical analysis tools. Features many real-life case studies from a variety of applications and practical industry problems, including areas such as security, business and economy, transport, oil & gas and ICT (Information and Communication Technology). Forms an ideal companion volume to Aven's previous Wiley text Foundations of Risk Analysis. Professor Aven's previous book Foundations of Risk Analysis presented and discussed several risk analysis approaches and recommended a predictive approach. This new text expands upon this predictive approach, exploring further the risk analysis principles,

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concepts, methods and models in an applied format. This book provides a useful and practical guide to decision-making, aimed at professionals within the risk analysis and risk management field.

In the past two decades, displacement ventilation has been increasingly used in Scandinavia and Western Europe to improve indoor air quality and to save energy. By using a detailed computer simulation method, this study compared the energy consumption of a displacement ventilation system with that of a mixing ventilation system for three types of U.S. buildings: a small office, a classroom and an industrial

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workshop. The investigation covers five U.S. climatic regions and three different building zones. The study showed that a displacement ventilation system might use more fan energy and less chiller and boiler energy than a mixing ventilation system. The total energy consumption is slightly less with a displacement ventilation system. The displacement ventilation system requires a larger air-handling unit and a smaller chiller than the mixing ventilation system does. The first costs are lower for displacement ventilation if the system is applied in the core region of a building. In the perimeter zones, the displacement ventilation system needs a separate

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heating system, and the first costs are slightly higher.

Massachusetts Institute of Technology, Cambridge, Mass.  
Programme of courses of instruction

A Case Study

Pressurized Heavy Water Reactors

Pamphlet box

Selection of Main Mechanical Ventilators for Underground Coal Mines

Industrial Ventilation Design

Guidebook

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

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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. This text provides a description and analysis of the Variable Air Volume (VAV) system from both a practical and theoretical view. The information provided ranges from the common textbook equations and references, to sources of authoritative information like ASHRAE, to a discussion of hands-

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on problems that have been encountered and resolved in actual designs. Issues like controls and dampers that behave in a non-ideal manner are described with suggestions on how to overcome these limitations. The advantages and disadvantages of using VAV configurations are explored and analyzed.

Since the first edition in 1948, Patty's Industrial Hygiene and Toxicology has become a flagship publication for Wiley. In the course of its nearly six decades in print, it has evolved into a standard reference for the fields of occupational health and toxicology. The volumes on Industrial Hygiene are cornerstone reference works for chemists, engineers, toxicologists, and occupational safety personnel.



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Since the 5th edition was published, the field of IH has changed with personnel often working for multinational firms, self-employed, at small consulting firms. Their environment has changed and expanded, and thus also the types of information and resources required have changed. The traditional areas of interest to occupational health and safety professionals include anticipation, recognition, evaluation and control of potential hazards. In addition to these, the 6th edition provides information and reliable resources to prepare for natural disasters, exposures to biological agents and potential acts of terrorism. Inventory of Federal Energy-related Environment and Safety Research for ...

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Marine Safety

Tools for Risk-Based Decision Making

11th International Conference, ICCCI 2019, Hendaye, France, September 4–6, 2019, Proceedings, Part II

Indoor Air Quality Engineering  
Environmental Impact Statement

*The organization, processing and representation of knowledge becomes increasingly important in all scientific and business contexts. This book focuses on qualitative methods for knowledge organization and their contributions to knowledge-based issues of marketing management research. Besides theoretical discussions of different approaches to and definitions of knowledge and methods for knowledge organization, several case studies in the field of marketing management are presented. Questions of research design,*

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*adequate choice of methodologies and practical relevance of the results are addressed.*

*The purpose of the 10th US North American Mine Ventilation Symposium in Anchorage 2004 was to bring together practitioners involved in the planning and operation of underground ventilation systems, to provide a forum for debate and exchange of ideas, and to share information on the advances which have been made and consider problems*

*This book provides information on proper underground mine ventilation in order to detail its importance in maintaining safe, productive, healthy and effective underground environments at all times for employees. The text covers correct design, implementation and maintenance of mine ventilation through suitable fan installation, and keeps in mind the economic requirements of undertaking safe*

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*procedures and implementations to ensure that ventilation is optimal. Through three main goals, the book addresses the need for proper fan ventilation in the potentially hazardous conditions of an underground mine. The first goal is to summarize and update the technical information on the strategic importance of selecting suitable techno-commercial main mechanical ventilators for a coal mine. The second goal is to provide a user friendly computer program to help any practicing engineers, mine operators, regulators and researchers in choosing the main mechanical ventilators. Factors in this selection process include environmental requirements, regulatory conditions, occupational health related issues, and cost. The third goal is to provide applications for computer programs meant to determine proper selection and implementation of the main mechanical ventilators. The text is geared towards*

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*teachers, researchers, policy makers, environmental organizations and mine operators who wish to teach about or implement the best possible ventilation systems for the health and safety of mine workers.*

*Routledge International Handbook of Qualitative Nursing Research*

*Volume 2: Engineering Design and Applications*

*Proceedings of the 10th US / North American Mine Ventilation Symposium, Anchorage, Alaska, USA, 16-19 May 2004*  
*Mine Ventilation*

*Computational Collective Intelligence*

**Pressurized Heavy Water Reactors: Atucha-II, the eighth volume in the JSME Series on Thermal and Nuclear Power Generation, provides a comprehensive and complete review of a single type of reactor in a very accessible and practical way. The**

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book presents a close analysis of the Atucha reactor, covering reactor physics, aging management of major components, and the role of codes in PHWR and Nuclear Regulation and Licensing. Including contemporary capabilities and challenges of nuclear technology, the book offers solutions and advice on common problems faced, guiding the reader through safe and approved processes that will help them reach suitable solutions. Professionals involved in lifecycle assessments and researchers interested in the development and improvement of nuclear energy technologies will gain a deep understanding of PHWR nuclear reactor physics, design and licensing. A comprehensive reference on the latest research on Atucha Pressurized Heavy Water Reactors and their

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impact on sustainability goals  
Analyzes The Atucha-2 BEPU and LBLOCA  
Considers the licensing of Atucha-2, its physics and aging management of major components  
Marine Safety provides a toolbox of field-tested and proven tools for assessing and managing marine risks and making better-informed decisions to prevent marine casualties. Using this book as a guide, managers in the marine industry learn to apply 12 common risk-based decision-making tools that help them make practical and technically-defensible decisions for managing port and waterway operations, conducting inspections, and preparing and responding to accidents. The authors thorough examine the 12 tools and include discussions on each tool's concepts, limitations, common uses, procedures,

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terminology, and applications to marine safety in a clearly outlined, user-friendly format. Marine Safety examines such tools as Pareto Analysis, Checklist Analysis, Relative Ranking/Risk Indexing, Change Analysis, What-if Analysis, Hazard and Operability, Fault Tree Analysis, and Event and Causal Factor Charting. In addition, Marine Safety examines key factors for choosing risk assessment methods and suggest risk assessment approaches to support different types of decision making, depending on each situation. Examples of common marine-oriented situations, illustrative charts, graphs, and diagrams are included for easy understanding. There is a need for a text book containing practical case studies in the subject of energy conservation and associated CO<sub>2</sub> emission mitigation



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for UG & PG level engineering and science students. This book is written keeping in mind the application part of engineering knowledge and skills so that learners and practicing engineers can really apply the techniques in the field. Application of engineering principles and the methodology of integrating with practice in reducing CO<sub>2</sub> emission are presented in this maiden edition. The first chapter provides an insight into the nexus between energy consumption and CO<sub>2</sub> emission and the needed for mitigation. In Chapter-2 a detailed survey is presented to highlight the need of energy conservation and the achievements made. The application of numerical tools for critical analysis of energy systems to quantify energy consumption and CO<sub>2</sub> emission mitigation potential are reviewed and

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presented. Detailed discussions on energy Audit, emission estimation methodology are enumerated in Chapter 3 to motivate the readers to understand and apply these strategies in the industrial environment. The cases of paper based industry, cement, spice powder and electronic contactors manufacturing industry are discussed for better understanding in chapters 4, 5, 6 & 7. In chapter 8, the application of numerical method- Computational Fluid Dynamics (CFD) to pressure drop analysis in compressed air pipe junctions T and elbow are discussed with simulation results for energy and CO<sub>2</sub> emission reduction. A brief introduction is presented on carbon capture in chapter 9. This book will be an eye opener for the readers looking for a career in the domain of Green

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Manufacturing and serve as a hand book for practicing engineers.

Architecture & Sustainable Development (vol.1)

Engineering Control Guidelines for Hot Mix Asphalt Pavers

Ventilation Requirements for Rinding, Buffing, and Polishing Operations: NIOSH Research Report, Sept. 1974

Assessing Uncertainties Beyond Expected Values and Probabilities

Guidelines for Chemical Process Quantitative Risk Analysis

The Alumni Quarterly and Fortnightly Notes of the University of Illinois