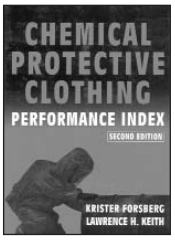
Chemical Protective Clothing: Performance Index, Second Edition

Krister Forsberg and Lawrence H. Keith

Publication #99-071 $215



Chemical Protective Clothing provides industrial hygienists and workplace safety professionals with a resource for making decisions on chemical protective clothing (CPC). This new and expanded edition presents virtually all available data on the resistance of CPC to a wide variety of chemicals. Coverage spans test records from manufacturers worldwide, including CPC permeation and degradation data obtained with ASTM methods as well as other regulatory standards.

Organized by chemical name and CAS number, the new edition features:

- Over 10,500 chemical permeation tests – more than double the number of the 1989 edition;
- An additional 3,000+ chemical degradation tests;
- Coverage of more than 860 chemicals and mixtures;
- Information on more than 350 different types and models of CPC, including gloves, hazmat suits, boots, visors, and more;
- Roughly 50,000 data entries on such subjects as test material, thickness, permeation rates, breakthrough times, permeation index numbers, and references.

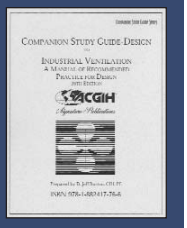
ISBN: 978-0-471-328844-5. © 1999. 639 pages.

ACGIH® *Signature Publications**

Companion Study Guide to Industrial Ventilation: A Manual of Recommended Practice for Design, 26th Edition

D. Jeff Burton

Publication #07-068 $69



First issued in 1951, *Industrial Ventilation: A Manual of Recommended Practice* (renamed *Industrial Ventilation: A Manual of Recommended Practice for Design* and referred to as the Design Manual) has been the premier reference for the design and operation of industrial ventilation systems. The *Companion Study Guide* (CSG) has been revised to reflect changes to the Design Manual. It shows how to apply the principles provided in the Design Manual and enhances and eases the study of industrial ventilation design.

The CSG was written for students, practicing industrial hygienists, engineers, designers and all other users of the Design Manual. It simplifies, explains, and makes understandable the complex reference material of the Design Manual.

The CSG provides the following explanatory sections for each Design Manual chapter:

• Primary objectives and coverage of the chapter

• A table of Terms and Units used in the chapter

• Explanatory notes on the chapter text

• Supplementary information and equations

• Sample calculations using the Design Manual and related equations

The CSG also provides:

• Potential approaches for the director of industrial ventilation courses.

• A quiz with answers.

• A case study to show how the material is applied in the real world.

• Additional references and information sources.

For maximum effectiveness, purchase the two books together.

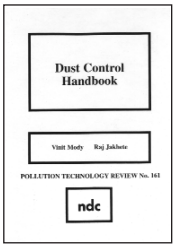
ISBN: 978-1-882417-76-6. © 2007. 300 pages.

*ACGIH® Members receive 10% off all ACGIH® *Signature Publications*.

Dust Control Handbook

Vinit Mody and Raj Jakhete

Publication #9068 $145



Information on dust control engineering techniques for metal and non-metal mineral processing is consolidated in this handbook. The technology is pertinent for other industries as well. The concepts of dust – its prevention, formation, and control – are examined, including wet and dry control systems, personal protection, and testing methods. Costing methodologies are also examined.

ISBN: 978-0-8155-1182-3. © 1988. 203 pages.

Elevated Work Platforms and Scaffolding: Job Site Safety Manual

Matthew J. Burkhart, Michael McCann and Daniel M. Paine

Publication # 05-012 $99.95

Written by a trio of construction safety experts, this book provides a history of scaffolding safety regulations; discussions on accidents, injuries, and fatality rates associated with scaffolding use; and case studies that analyze the cause and prevention of scaffolding accidents. The proper construction and inspection process is described for various scaffold types including supported scaffolds, suspended scaffolds, mobile scaffolds, aerial lifts, stairways, and ladders. Additional topics include:

- Common types of scaffolding and elevated work platforms
- Federal regulations relative to scaffolding, elevated work platforms, ladders, and stairways
- Safety related consensus standards and industry practices for scaf folding, elevated work platforms, stairs, and ladders
- Developing an effective general safety program relative to elevated work platforms
- Developing a site-specific safety program relative to elevated work platforms

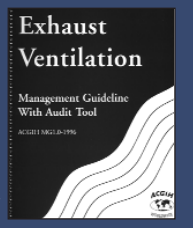
ISBN: 978-0-07-141493-7. © 2004. 543 pages.

ACGIH® *Signature Publications*®

Exhaust Ventilation: Management Guideline with Audit Tool

D. Jeff Burton

Publication #9654 $64.95



This text describes recommended management practices for the design, selection, operation, and maintenance of exhaust ventilation systems used for emission control and employee exposure protection. It summarizes recommended practices as well as selected standards and good practices found in existing literature; it lists technical resources; and it provides an audit tool to facilitate the development and maintenance of an effective program.

ISBN: 978-1-882417-16-2. © 1996. 68 pages.

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ACGIH® *Signature Publications*®

Guide for Testing Ventilation Systems

Publication #2020 $9

Complete and easy to use for testing industrial ventilation systems, this guide covers field testing, measurements of volumetric flow rate, traverse calculation examples, and check-out procedures. Extensive use of illustrations and tables clarifies the material in the text. Sample "Test Data Sheets" are also provided.

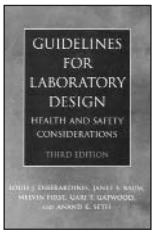
ISBN: 978-0-936712-93-2. © 1991. 32 pages.

*ACGIH® Members receive 10% off all ACGIH® *Signature Publications*.

Guidelines for Laboratory Design: Health and Safety Considerations, Third Edition

DiBerardinis, Baum, First, Gatwood and Seth

Publication #01-046 $210



This well-established text provides dependable design and application information relevant to planning new laboratories or laboratory renovations. Important design issues such as efficiency, economy, and energy conservation for commonly used labs and various other labs are discussed. New to the third edition:

- New material on microelectronics and print-making labs
- Environmental preservation
- Expanded chapter on teaching labs
- Latest trends in laboratory ventilation and safety systems
- Incorporation of "green" laboratory design

ISBN: 978-0-471-25447-8. © 2001. 612 pages.

ACGIH® Signature Publications*

Guidelines for Selection of Chemical Protective Clothing, 3rd Edition

A.D. Schwope, P.P. Costas, J.O. Jackson and D.J. Weitzman

Publication #0460 $56.95

Chemical protective clothing (CPC) is a key element in minimizing the potential for worker exposure to chemicals. This two-volume set provides the basic data required to select, order, and intelligently use CPC; identifies sources; and contains detailed discussion of permeation theory, CPC testing methods, and CPC vendors' literature. Recommendations for actions that would benefit the CPC selection and use processes are also included. (8.5" × 11" binders).

ISBN: 978-0-936712-73-4. © 1987. 330 pages.

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ACGIH® Signature Publications*

Handbook of Ventilation for Contaminant Control, Third Edition

Henry J. McDermott

Publication # 01-001

1-19 $79.95 20+ $63.96

Just off the press – a new Third Edition of this popular ventilation resource written specifically to serve as a companion to *Industrial Ventilation: A Manual of Recommended Practice, 24th Edition.* It is also an excellent study aid for the CIH and CSP examinations.

Starting with an easy-to-understand description of pressure and airflow fundamentals, the book explains "how" a local exhaust system operates to control airborne contaminants. Separate chapters cover hood, air cleaner, and fan selection. The book guides the reader through a simple design process for single and multi-hood systems. In-depth coverage is also included on topics such as: testing system performance; diagnosing and solving fan and system problems; successfully handling high-toxicity or nuisance contaminants; saving money; using dilution ventilation effectively; ventilation as a cause and solution for Indoor Air Quality problems; and OSHA ventilation regulations.

ISBN: 978-1-882417-38-4. © 2001. 221 pages.

*ACGIH® Members receive 10% off all ACGIH® *Signature Publications*.

Heating, Ventilating, and Air Conditioning: Analysis and Design, Sixth Edition

Faye C. McQuiston, Jerald D. Parker and Jeffrey D. Spitler

Publication #7070 $165.96

Based on the most recent standards from ASHRAE, the Sixth Edition provides complete and up-to-date coverage of all aspects of heating, ventilation, and air conditioning, including the latest load calculation procedures, indoor air quality procedures, and issues related to ozone depletion. Also integrated throughout the text are numerous worked examples that clearly demonstrate how to apply the concepts in realistic scenarios. A convenient classroom teaching aid, this text is intended for use by engineering students at the undergraduate and graduate level as well as practicing engineers.

ISBN: 978-0-471-47015-1. © 2004. 623 pages.

NEW EDITION

HVAC Systems Design Handbook, Fifth Edition *(Available November 2009)*

Roger Haines and Lewis Wilson

Publication #9841 $105

The Fifth Edition of *HVAC Systems Design Handbook* has been updated to reflect the latest codes and specifications. It provides one-stop guidance on designing efficient and effective residential, commercial, and industrial HVAC systems.

The author's half-century in the HVAC field is apparent in this all-in-one working tool that is packed with applications and invaluable on-the-job insights. Information on every phase of the HVAC design process is available in this Handbook.

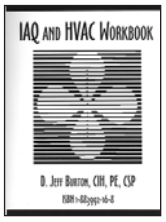
The Handbook offers thorough coverage of the latest technological and procedural advances in the design and installation of HVAC system. The Fifth Edition offers completely updated code references, new coverage of energy conservation and digital control practice, and a greater focus on indoor air quality, including maintenance and operation.

Enhanced by more than 300 job-simplifying illustrations and tables, the Handbook provides HVAC design pros with everything they need to design, operate, and maintain peak-performing HVAC systems.

IAQ and HVAC Workbook, 4th Edition

D. Jeff Burton

Publication #0439 $69



The *IAQ and HVAC Workbook* is written in simple, understandable terms. Designated a "valuable data resource" by the Department of Labor, chapters include: an overview of IAQ issues, investigation techniques, management, air contaminants, building air handling systems, principles of ventilation, fans, air intakes, HVAC ductwork, testing, commissioning, and troubleshooting HVAC systems and more.

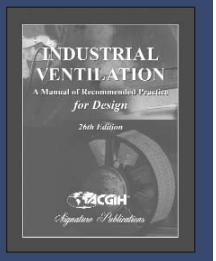
ISBN: 978-1-883992-16-3. © 1993-2005. 300 pages.

ACGIH® Signature Publications*

Industrial Ventilation: A Manual of Recommended Practice for Design, 26th Edition

Publication # 2095

1-19 $109.95 20+ $87.96



Since its first edition in 1951, *Industrial Ventilation: A Manual of Recommended Practice* has been used by engineers and industrial hygienists to design and evaluate industrial ventilation systems. The 26th Edition of this Manual continues to be a basic reference. Renamed *Industrial Ventilation: A Manual of Recommended Practice for Design* (the Design Manual), this Manual addresses design aspects of an industrial ventilation system and complements *Industrial Ventilation: A Manual of Recommended Practice for Operation and Maintenance* (the O&M Manual).

Four new chapters have been added providing information on:

- Exposure assessment
- Preliminary ventilation system design considerations
- Ventilation system costs
- Energy considerations

ISBN: 978-1-882417-71-1. © 2007.

Also available as a 2 Volume Set: **Industrial Ventilation: A Manual of Recommended Practice for Design, 26th Ed.** ***and*** **Industrial Ventilation: A Manual of Recommended Practice for Operation and Maintenance**

Publication #IVM Combo

(Publication #s 2095 and 2106)

1-19 $199.95 20+ $159.96

Industrial Ventilation: A Manual of Recommended Practice, 25th Edition Print and CD-ROM Combo

Publication #2094B

1-19 $218.95 20+ $175.16

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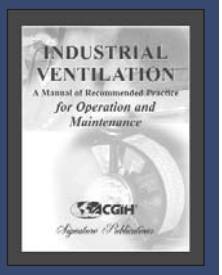
ACGIH® Signature Publications*

Industrial Ventilation: A Manual of Recommended Practice for Operation and Maintenance

Publication #2106

1-19 $109.95 20+ $87.96



This Manual is intended as a companion to the 26th and future editions of *Industrial Ventilation: A Manual of Recommended Practice for Design*. Some of the highlights of this Manual include:

- Guidance and training information for personnel with responsibilities for the acquisition, operation, and maintenance of industrial ventilation systems.
- Discussion of key points regarding effective operation and maintenance for industrial ventilation systems and identification of why many ventilation systems fail to deliver the expected employee protection.
- Tools that allow management and employees to deliver the desired employee protection with well-designed systems (assuming that site management sets clear expectations and responsibilities within its organization for industrial ventilation system results).
- Discussion of acquisition and operation of an industrial ventilation system from developing the initial design requirements to successful system maintenance and operation that keep the system within design parameters.

The chapters in this Manual are written for the employees and their managers who must use and maintain industrial ventilation systems in the workplace. Each chapter is a comprehensive guide for users of industrial ventilation systems through their duties and responsibilities, and provides information on how the systems work, recommended maintenance frequency, and troubleshooting guidance. Some of the chapters in this Manual include:

- Construction and Commissioning
- Air System Testing
- Balancing
- Operator Skills and Training
- Monitoring and Maintenance
- Managing Ventilation Systems
- System Modifications

ISBN: 978-1-882417-66-7. © 2007.

Also available as a 2 Volume Set: **Industrial Ventilation: A Manual of Recommended Practice for Design, 26th Ed.** ***and*** **Industrial Ventilation: A Manual of Recommended Practice for Operation and Maintenance**

Publication #IVM Combo

(Publication #s 2095 and 2106)

1-19 $199.95 20+ $159.96

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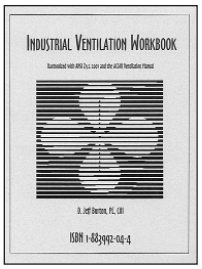
Industrial Ventilation Workbook, 6th Edition

D. Jeff Burton

Publication #0428 $69



This classic 310-page self-study text is revised and updated frequently. The *Industrial Ventilation Workbook* takes the reader from introductory concepts through advanced materials in 21 chapters. Written for safety and health professionals, the *Workbook* is an excellent companion to the *Industrial Ventilation Design Manual* and textbooks. The *Workbook* is included in a comprehensive distance learning course.

ISBN: 978-1-883992-04-0. © 1993-2005. 320 pages.

Introduction To Fall Protection, Third Edition

J. Nigel Ellis

Publication #01-040 $89

The new edition of this best selling book now includes detailed information on anchorages and horizontal lifeline fall arrest systems, while providing the essential elements of a fall protection program. Topics covered include:

- Fall protection in various workplace environments
- Detailed descriptions of active and passive fall protection systems
- Extensive examples of correct and incorrect application of anchorages, fall arrest systems, body supports, and work positioning
- Descriptions of practical approaches to managing fall hazards, safety program pre-planning, and safety audits

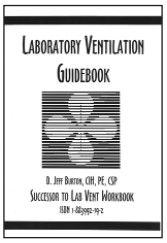
ISBN: 978-1-885581-31-0. © 2001. 514 pages.

"*This text is an important contribution to the safety field. Falls still account for a very large percentage of industrial mishaps, and kill and injure thousands of workers each year. The information in this text provides for the development and implementation of an effective fall protection program, and it should be part of every safety manager's library.*" — Michael L. Adess, PhD

Laboratory Ventilation Guidebook

D. Jeff Burton

Publication #0437 $69



The *Laboratory Ventilation Guidebook* describes typical lab exhaust systems and associated HVAC systems in a clear and understandable way. Major topics include: testing methods and procedures; hood approval methods (e.g., ASHRAE); application of the proposed OSHA regulation; new ANSI Z9.5-2001 standard on lab ventilation; explanation of NFPA 45; good work practices; performance factors and their application; model lab ventilation programs; use of real-time monitors; VAV systems; general information on air handling, dilution, and exhaust systems.

The *Laboratory Ventilation Guidebook* also provides numerous charts, forms, checklists, additional sources of information, a glossary, and an index.

ISBN: 978-1-883992-19-4. © 2004. 270 pages.

Lockout/Tagout — A Practical Approach

Stephen M. Kelley

Publication #02-005 $42

This basic handbook provides practical considerations and strategies for coordinating a comprehensive energy control program and achieving compliance with OSHA's Lockout/Tagout standard. Case studies of common causes of energy-related accidents are presented, along with potential accident situations. The book covers: Protective appliances; Energy isolation; Verification methods for specific types of energy; High-voltage equipment; Continuity of protection during shift/personnel changes.

A sample format for equipment-specific energy control procedures is included, as well as a sample lockout/tagout program, and several informative illustrations.

ISBN: 978-1-885581-35-8. © 2001. 198 pages.

OSHA/ACGIH® Environmental Tobacco Smoke Workshop Proceedings

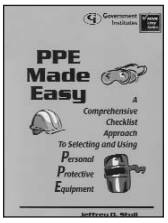
Publication #99-078 $27.50

This publication was compiled based on the OSHA/ACGIH® Environmental Tobacco Smoke Workshop held June 6, 1998, in Greater Cincinnati. The Workshop brought together a panel of ventilation experts, with hospitality industry managers and design engineers, to discuss effective and non-effective ventilation strategies for smoking sections in restaurants and bars. Included in the Proceedings are copies of the presentation slides utilized by the presenters. 176 pages.

PPE Made Easy

Jeffrey O. Stull

Publication #9846 $115



Using a checklist approach, *PPE Made Easy* presents a comprehensive risk assessment approach to personal protective equipment (PPE) selection for industrial and fire-protection applications. It identifies the hazards workers face, helps select the right equipment from the range of PPE products available, and provides practical advice on the use and care of PPE.

This book is a practical alternative to reading hundreds of pages of technical data or reviewing extensive computer databases. Whether workers need gloves, footwear, respirators, eyewear, helmets, earplugs, or full-body fire-resistant garments, this book will assist in making the choices that will keep workers safe.

PPE Made Easy also looks at the NIOSH respirator standards and into the future to some of the technological developments that may affect workers in years to come.

ISBN: 978-0-86587-558-6. © 1998. 650 pages.

Practical Guide to Respirator Usage in Industry, 2nd Edition

Gyan S. Rajhans and Bhawani P. Pathak

Publication #03-004 $73.95

The authors simplify the complex data that industries receive from OSHA, NIOSH, ANSI, BSI, and other health and safety standards setting organizations by providing practical descriptions of methods and procedures, and case studies that illustrate improper respirator selections and resulting effects. This new edition focuses on the design and implementation of an effective respiratory protective equipment program that protects workers from inhaled particulates, toxins, and other hazardous materials. The book includes:

- Chapters on the respiratory tract and how toxic substances affect the lung
- Different respirator types and their limitations
- Criteria for selection, fitting, supervision, training, cleaning, administration, and medical assessment
- Advice on how to set up a respiratory protection equipment (RPE) program

Updated bibliographies, websites, and abstracts of new respiratory research publications have also been added to this new edition.

ISBN: 978-0-7506-7435-5. © 2002. 173 pages.

Quick Selection Guide to Chemical Protective Clothing, Fifth Edition

Krister Forsberg

Publication #9090 $59.95

The Fifth Edition of this pocket guide continues to provide the latest recommendations for the selection, use, and care of different types of chemical protective clothing. Covering over 700 chemicals, this new edition also includes the 21 test chemicals listed in ASTM F1001/EN374 vs. manufactures products of generic materials in a special sub-section. European requirements for chemical resistant gloves specified in European standards are also included in the sub-section.

Color-coded selection recommendations offer information at a glance; registered trade names and web addresses provide easily accessed information.

ISBN: 978-0-470-14681-1. © 2007. 216 pages.

NEW EDITION

Slip, Trip, and Fall Prevention: A Practical Handbook, Second Edition *(Available July 2009)*

Steven Di Pilla

Publication #03-029 $99.95

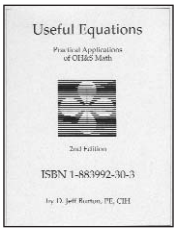
Slip, Trip, and Fall Prevention is a comprehensive reference for prevention, control, and mitigation of slip, trip, and fall accidents. This well-illustrated and carefully researched volume covers standards and best practices relating to facility design, effective management control programs, test methods and standards relating to pedestrian safety, and slip resistance methods in the U.S. and abroad. In addition to fall exposure profiles of high-risk occupancies, with chapters devoted to healthcare and food service, the book includes step-by-step information on slip/fall accident reporting, investigation, and mitigation. It includes checklists, handouts, case studies, rich online resources, and an extensive bibliography.

ISBN: 978-1-420082-34-0. © 2009. 496 pages.

Useful Equations — Practical Applications of OH&S Math, 2nd Edition

D. Jeff Burton

Publication #99-069 $69



Useful Equations shows how to apply about 140 IH-related equations to the real world of industrial hygiene. Each section presents a number of sample problems and mini case studies. Section topics include: math, general sciences, cost estimating, general IH, statistics, local exhaust ventilation, dilution ventilation, ductwork, hoods, fans, stacks, IAQ, thermal stress, sound and noise, and radiation; the Appendix provides indices, conversion factors, constants, and a number of charts and nomographs. The *Useful Equations* text is keyed to the IVE AutoCalc preprogrammed calculator, which solves most of the equations described in the book.

ISBN: 978-1-883992-30-9. © 2004. 300 pages.

Ventilation Calculation Sheets: Velocity Pressure Method

ACGIH®

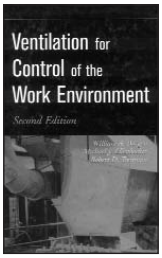
Publication #208A	1-3	$7
	4+	$3.50

These handy, time-saving forms are designed to simplify industrial ventilation parameter calculations. Updated to complement the 26th Edition of the ACGIH® Industrial Ventilation Design Manual. 1 set = 25 copies.

Ventilation for Control of the Work Environment, Second Edition

William A. Burgess, Michael J. Ellenbecker and Robert D. Treitman

Publication #05-003 $130



This book is designed to be used with the latest edition of ACGIH®'s *Industrial Ventilation: A Manual of Recommended Practice for Design* and provides detailed coverage of theoretical and practical aspects of industrial ventilation systems. The new edition features end-of-chapter problem sets, both English and metric units, new ventilation practices, and research advances. Topics covered include:

- Overview of industrial exhaust ventilation and its impact
- Methods and instrumentation for measuring airflow
- Hood design, selection, and performance; fan design and performance
- Computational flow dynamics
- Fluid mechanics, general exhaust ventilation, and air-cleaning devices
- The design of local exhaust ventilation systems
- The re-entry of exhausted air

ISBN: 978-0-471-09532-3. © 2004. 424 pages.

INDOOR AIR QUALITY

ACGIH® *Signature Publications**

Air Sampling Instrument Selection Guide: Indoor Air Quality

Chuck McCammon, Editor

Publication #9852 $30.25

This handy guide offers the information you need to select the appropriate air sampling instruments for indoor air quality (IAQ) investigations. Prepared by the ACGIH® Air Sampling Instruments Committee, this special selection guide covers measurements for carbon dioxide, carbon monoxide, oxides of nitrogen, formaldehyde, ozone, particulate matter, volatile organic compounds, and bioaerosols.

A brief overview of the constituent is followed by tables listing available instruments and their capabilities. A complete list of manufacturers is also included. The selection guide is based on, and an adjunct to, the *Air Sampling Instruments Manual.*

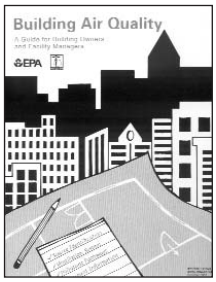
ISBN: 978-1-882417-27-8. © 1998. 56 pages.

*ACGIH® Members receive 10% off all ACGIH® *Signature Publications*.

Building Air Quality

U.S. EPA and NIOSH

Publication #9257 $32



This "self-help" guide for building owners and facility managers contains information on developing an IAQ building profile and management plan, identifying causes and solutions to problems and appropriate control strategies, and deciding whether outside technical assistance is needed. Sections focus on key problem-causing factors, air quality sampling, HVAC system operation and maintenance, mold and moisture problems, and other topics. Checklists, forms, flowcharts, and tables are also included in this looseleaf notebook with tabbed dividers. © 1991. 229 pages.