



# Technical Reference Books

## Building Automation System Integration with Open Protocols

By American Technical Publishers, Inc., 2009



- Obtain knowledge in building automation systems, such as HVAC, lighting, security systems, functions of sensors, actuators, and other control equipment used in commercial buildings
- Learn about electrical, plumbing, fire protection, security, access control, voice-data-video (VDV), and elevator systems control devices and applications
- Create a solid foundation for a comprehensive training program in building automation

A CD-ROM is included that serves as a self-study aid to enhance the text content, it features Quick Quizzes®, Illustrated Glossary, Flash Cards, Media Clips, and a link to [www.ATPeResources.com](http://www.ATPeResources.com).

**Order Number: BK-0018**  
ISBN: 9780826920126, Pages: 408, Hardback

## Indoor Air Quality Solutions for Stationary Engineers

By American Technical Publishers, Inc., 2009



- Obtain an overview of what IAQ (Indoor Air Quality) is, instruments and testing procedures, and how to maintain IAQ in institutional and commercial facilities
- Learn required safety practices, environmental protection, and common building stationary engineering applications
- Contains references to ANSL, EPA, and ASHRAE standards

A CD-ROM is included that serves as a self-study aid to enhance the text content, it features Quick Quizzes®, Illustrated Glossary, Flash Cards, Test Tool Procedures, IAQ Survey Checklists, IAQ Equipment Forms, Virtual Meters, Media Clips, and a link to [ATPeResources.com](http://ATPeResources.com).

**Order Number: BK-0015**  
ISBN: 9780826907189, Pages: 390, Paperback

## Managing Indoor Air Quality

Fourth Edition

By H.E. Burroughs, C.I.A.Q.P. & Shirley J. Hansen, Ph.D., 2008



- Gain a comprehensive approach to managing indoor air quality and mitigating indoor air quality problems
- Learn about building security and mold-related issues
- Contains expanded coverage of ASHRAE standards

This practical desk reference is structured to serve 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.

**Order Number: BK-0029**  
ISBN: 0881735698, Pages: 356, Hardback

## HVAC Heating, Ventilating, and Air Conditioning

Third Edition

By S. Don Swenson, 2004



- Gain knowledge in HVAC fundamentals, types of HVAC units, load calculations, residential and commercial controls, with maintenance, troubleshooting, and servicing procedures of residential and commercial HVAC systems
- Contains information on HVAC unit operation, HVAC unit mechanical, electrical, and pneumatic systems, and the safety practices
- Learn technology in combustion of fuels, heat pumps, control systems, and system design

A CD-ROM is included that serves as a self-study aid to enhance the text content, it features Quick Quizzes®, Illustrated Glossary, Media Clips, and a link to [ATPeResources.com](http://ATPeResources.com).

**Order Number: BK-0040**  
ISBN: 9780826906786, Pages: 535, Hardback

## HVAC Control Systems

Second Edition

By Ronnie J. Auvil, 2007



- Learn all aspects of HVAC control systems used in the industry specifically designed for HVAC and building maintenance technicians
- Obtain knowledge in HVAC fundamentals, energy sources, and control principles as well as pneumatic, electromechanical, and electronic components and control systems
- Contains technology in energy efficiency practices, building automation systems, networking, direct digital control, building automation system retrofitting, maintenance management, and troubleshooting principles

A CD-ROM is included that serves as a self-study aid to enhance the text content, it features Quick Quizzes®, Illustrated Glossary, Physical Properties of Substances Tables, Media Clips, and a link to [ATPeResources.com](http://ATPeResources.com).

**Order Number: BK-0041**  
ISBN: 9780826907578, Pages: 405, Hardback

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# Technical Reference Books

## Testing & Balancing HVAC Air & Water Systems

Fourth Edition  
By Samuel C. Sugarman, 2006



- Gain all the information you will need to evaluate and balance the air and water sides of any HVAC system
- Contains information of pneumatic, electric, electronic, direct digital and proportional, integral and derivative control systems
- Learn every aspect of testing, adjusting and balancing, as well as all types of instruments required, and specific methods to adjust constant volume, single zone, dual duct, induction, and variable air volume systems

This book provides complete details for the full scope of system components, including fans, pumps, motors, drives and electricity, as well as for balancing devices and instrument usage as well as on testing and balancing clean rooms and HVAC system commissioning.

**Order Number: BK-0030**  
ISBN: 0881735345, Pages: 325, Hardback

## HVAC Fundamentals

Second Edition  
By Samuel C. Sugarman, 2007



- Clearly understand how HVAC systems operate by learning about the latest technology advances and terminology, as well as the full range of HVAC systems used in today's facilities
- Learn why one component or system may be chosen over another with respect to design, application, energy conservation, indoor air quality, and cost
- Fully examine heat flow fundamentals, heat flow calculations used in selecting equipment, determine system operating performance and costs, as well as fluid flow fundamentals and equations, basics of system testing and verification of system performance

This book separates out each of the major HVAC system components and controls for air, water, heating, ventilating and air conditioning, clearly illustrating the way each system, subsystem, control or component contributes to providing the desired indoor environment.

**Order Number: BK-0028**  
ISBN: 0881735590, Pages: 326, Hardback

## Refrigeration Systems and Applications

Second Edition  
By Ibrahim Dincer & Mehmet Kanoglu, 2010



- Learn to install and service pumps for nearly any application
- See how pumps are used in robotics, taking advantage of hydraulics to lift larger, heavier loads
- Know the appropriate servicing schedule for different types of pumping equipment

This book is a highly useful reference for HVAC engineers and technicians and those who work on domestic hot and cold-water services, gas supply, and steam services.

**Order Number: BK-0049**  
ISBN: 9780470747407, Pages: 780, Hardback

## Chemical Resistance Guide for Plastics

By Compass Publications



- Determine if your product is compatible in under 30 seconds
- Covers 1,454+ chemical or harsh environments with many synonyms listed to help you find any of the 43,330 covered combinations of corrosives vs. plastic materials
- Lists 1,450+ liquid or dry chemicals, gases, lubricants, household fluids, foods and many other environments

This book is a great addition for anyone working with plastics of any type.

**Order Number: BK-0022**  
ISBN: 1889712035, Pages: 682, Hardback

## Chemical Resistance Guide for Metals & Alloys

By Compass Publications



- Covers 72 metals and alloys
- 963 chemical or harsh environments with many synonyms listed to help you find any of the 29,000 covered combinations of corrosives vs. metals, metal alloys and carbon
- Features an expanded galvanic series that covers 120 metals

This book is a great addition for anyone working with alloys of any type.

**Order Number: BK-0023**  
ISBN: 1889712000, Pages: 436, Hardback

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Accessories & Books



# Technical Reference Books



## Chemical Resistance Guide for Elastomers III

By Compass Publications

- Determine if your product is compatible in under 30 seconds
- Covers 100,000+ combinations of corrosives vs. rubber and other elastometric compounds
- Lists 3,000+ liquid or dry chemicals, gases, lubricants, household fluids, foods and many other environments

This reference is a great addition for anyone working with elastomers of any type.

**Order Number: BK-0024**

ISBN: 1889712043, Pages: 780, Hardback



## Industrial Maintenance

Third Edition

By Denis Green & Jonathan F. Gosse, 2010

- Learn procedures commonly practiced in the real-world industry and trade for maintenance management, energy efficiency, troubleshooting, and occupational health and safety
- Service electrical, electronic, refrigeration, boiler, HVAC, mechanical and fluid power systems
- Contains a glossary that defines over 840 technical terms used throughout the textbook

A CD-ROM is included that serves as a self-study aid to enhance the text content, it features Quick Quizzes®, Illustrated Glossary, Maintenance Forms, Media Clips, and Reference Material.

**Order Number: BK-0014**

ISBN: 9780826936417, Pages: 423, Hardback



## Managers Guide Preventative Building Maintenance

By Ryan Cruzan, 2009

- Develop an effective preventive maintenance program for any facility
- Contains information about facility inspection and assessment, effective lubrication practices, commercial roofing repair, indoor air quality management, applicable government codes, standards and regulations, detailed preventive maintenance procedures, and maintenance scheduling
- Learn maintenance approaches for more than 100 types of equipment and building components, as well as the economic value of preventive maintenance, management and motivation of the preventive maintenance team, and setting up a computerized maintenance management system (CMMS)

**Order Number: BK-0034**

ISBN: 0881736198, Pages: 304, Hardback



## Industrial Process Control Systems

Second Edition

By Stephen W. Fardo and Dale R. Patrick, 2009

- Learn about manufacturing and how it deals with the transformation of materials into marketable products
- Gain knowledge in specific manufacturing operations such as: systems that respond to temperature, pressure, flow, level, and analytical procedures are commonly used in an industrial setting to manufacture a product
- Contains information on operating system, process control, pressure systems, thermal systems, level determining systems, flow process systems, analytical process systems, microprocessor systems, automated processes and robotic systems

This book covers the systems concept that will serve as the basic approach to understanding and effectively applying industrial process control.

**Order Number: BK-0037**

ISBN: 0881735914, Pages: 445, Hardback



## Facility Managers Handbook

By Joseph F. Gustin, 2003

- Learn about the main issues of facility management such as HVAC, lighting, electrical, plumbing, space allocation, security and grounds maintenance
- Gain a multitude of tested ideas, procedures and examples for successfully and cost-effectively managing facility operations
- Contains a wealth of illustrations, tables and graphs

This book is written in a easily understood language, is reader-friendly, and provides a panoramic view of the process by isolating the key areas the facility manager must address, including real estate, space and change management, indoor air quality, emergency preparedness and response planning, communications systems, and regulatory mandates.

**Order Number: BK-0038**

ISBN: 0881733539, Pages: 349, Hardback

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# Technical Reference Books

## Mechanical and Electrical Systems For Construction Managers

Second Edition  
By American Technical Publishers, Inc., 2010



- Understand all aspects of a wide range of mechanical, electrical, and plumbing systems
- Gain an overview of these systems aimed at general contractors, construction managers, supervisors, and those desiring to enter the construction industry
- Learn the latest information on building automation systems, including control devices, signals, and logic

This comprehensive textbook includes information on plumbing, HVAC, and electrical systems.

**Order Number: BK-0044**  
ISBN: 9780826993601, Pages: 678, Paperback

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## Electricity and Electronics Fundamentals

Second Edition  
By Stephen W. Fardo & Dale R. Patrick, 2008



- Gain knowledge in direct current electronics, alternating current electricity, semiconductor devices, electronic circuits, digital electronics, computers and microprocessors, electronic communications, and electronic power control
- Learn key concepts that are discussed using a simplified approach that enhances learning
- Contains minimal use of mathematics and is discussed through applications and illustrations

This book is an easy-to-understand introductory text for those wishing to grasp the basic fundamentals of electricity and electronics.

**Order Number: BK-0031**  
ISBN: 0881736015, Pages: 302, Hardback

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## Troubleshooting Electrical/Electronic Systems

Third Edition  
By Glen A. Mazur & Thomas E. Proctor, 2010



- Learn about troubleshooting electrical and electronic systems designed for use in the electrical industry, electrical training programs
- Gain knowledge of electrical and electronic system applications with troubleshooting procedures and hands-on troubleshooting activities
- Contains information on alternative energy solutions, NFPA 70E® requirements, and motor nameplate interpretation

A CD-ROM is included that serves as a self-study aid to enhance the text content, it features Quick Quizzes®, Illustrated Glossary, Flash Cards, Virtual Meters, Media Clips, and a link to ATPeResources.com.

**Order Number: BK-0042**  
ISBN: 9780826917911, Pages: 631, Paperback

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## Electric Motor Drive Installation and Troubleshooting

By Glen A. Mazur & William J. Weindorf, 2003



- Learn electric motor drive installation and troubleshooting, including drive theory and applications, installation, testing, and troubleshooting procedures
- Obtain knowledge on drive programming and on the selection of motor drives for specific applications
- Contains questions and expanded paper-and-pencil activities at the end of each chapter providing solid assessment

A CD-ROM is included that serves as a self-study aid to enhance the text content, it features Quick Quizzes®, Illustrated Glossary, Media Clips, and a link to ATPeResources.com.

**Order Number: BK-0016**  
ISBN: 9780826912508, Pages: 503, Paperback

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## Variable Speed Drive Fundamentals

Third Edition  
By Clarence A. Phipps, 1999



- Gain a comprehensive overview of starting controls and their application to various types of induction motors of the advantages and disadvantages of each type of control
- Contains detailed evaluation of the most common versions of variable frequency drives with example application scenarios for AC motors
- Learn current trends in addressing harmonic problems created by VFDs, the use of new IGBT technology, as well as sizing and applying of VFDs, controlling enclosure heat, and energy saving opportunities

This book is written in easily understood language and provides an authoritative, yet practical guide for the engineer or technician involved in specifying, applying, maintaining or operating variable frequency drives (VFDs), including full coverage of both AC and DC motors and controls.

**Order Number: BK-0032**  
ISBN: 0881733105, Pages: 780, Hardback

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# Technical Reference Books

## Compressor Handbook Principles and Practices

By Tony Giampaolo, 2010



- Explains updated maintenance and construction standards and provides details on motors, controllers, and circuits
- Examines electronic components and communications wiring and offers guidelines for dealing with hazardous location wiring
- Covers generators, mechanical power transmission, and electrical power distribution

This book examines the full spectrum of compressor types, how they operate, how to control them, and how operating conditions can significantly impact their performance.

**Order Number: BK-0033**  
ISBN: 0881736155, Pages: 360, Hardback

## Low Pressure Boilers

Third Edition

By Frederick M. Steingress & Daryl R. Walker, 2009



- Learn thoroughly covered aspects of low pressure boilers, featuring ASME Code requirements, smoke-control procedures, boiler fittings, feed water, steam, combustion, boiler operations, and water treatment
- Prepare for boiler licensing with preparation that includes sample questions with provided answers
- Contains information on boiler systems and related equipment that are depicted in full-color illustrations complemented by concise text and is a must for operators of boiler systems used in hotels, apartment buildings, schools, and other large institutions

A CD-ROM is included that serves as a self-study aid to enhance the text content, it features Quick Quizzes®, Illustrated Glossary, Sample Licensing Exams, Media Clips, and a link to ATPeResources.com.

**Order Number: BK-0021**  
ISBN: 9780826943583, Pages: 406, Hardback

## High Pressure Boilers

Fourth Edition

By Frederick M. Steingress, Harold J. Frost & Daryl R. Walker, 2010



- Obtain the knowledge and latest information on safe and efficient operation of high pressure boilers and related equipment such as steam boiler operations, fittings, boiler operation safety, combustion and computer-assisted combustion controls, boiler water treatment, licensing, and a comprehensive illustrated glossary
- Prepare to pass a boiler operator's licensing exam
- Contains over 750 sample licensing exam questions from licensing exam agencies and expanded exam preparation techniques

A CD-ROM is included that serves as a self-study aid to enhance the text content, it features Quick Quizzes®, Illustrated Glossary, Sample Licensing Exams, Media Clips, and a link to ATPeResources.com.

**Order Number: BK-0020**  
ISBN: 9780826943002, Pages: 344, Paperback

## Boiler Operator's Handbook

By Ken Heselton, P.E., C.E.M., 2005



- Learn how to lower plant operating costs, as well as how to operate the plant of all types and sizes more wisely
- Gain knowledge in clear terms of how to set effective priorities to assure optimum plant operation, including safety, continuity of operation, damage prevention, managing environmental impact, training replacement plant operators, logging and preserving historical data, and operating the plant economically
- Use as an important reference to reduce a facility's operating expense

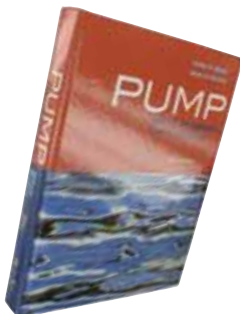
This book was written specifically for boiler plant operators and supervisors.

**Order Number: BK-0036**  
ISBN: 0881734349, Pages: 401, Hardback

## Pump User's Handbook Life Extension

Third Edition

By Heinz P. Bloch & Allan R. Budris, 2010



- Learn about straight-pipe requirements upstream of pump suction nozzles, details on temporary suction strainers, control strategies, detailed explanations and fully illustrated coverage of all API seal plans in use today, and case studies in mechanical seal upgrading
- Gain knowledge in modern canned motor pumps and recessed impeller pumps with advantageous axial-spiral discharge volutes and energy-efficient pumps
- Contains details on combining pump maintenance with systematic upgrading

This book is aimed at operating technicians, maintenance professionals, project engineers, reliability engineers and managers, it is intended for every job function that comes in contact with process pumps, with focus on how you can achieve consistently superior run lengths, low maintenance expenditures, and unexcelled safety and reliability in all of your pump applications.

**Order Number: BK-0035**  
ISBN: 0881736279, Pages: 492, Hardback

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# Technical Reference Books

## Water Quality & Systems

Second Edition  
By Robert N. Reid, 2004



- Gain guidance in achieving an optimally functioning system, while controlling both operating and maintenance costs and keeping building occupants satisfied and productive
- Learn the best approaches to keeping your water systems both safe and efficient and also assuring that you are in full compliance with all applicable regulations
- Contains information on EPA's WAVE Saver program for the hotel/motel industry and coverage of other regulations and codes

The book has been specifically formatted to provide the manager with the most important, most comprehensive amount of information in the least amount of time, thereby optimizing the reader's investment in the information.

**Order Number: BK-0039**  
ISBN: 0881733326, Pages: 324, Hardback

## Groundwater Treatment Technology

Third Edition  
By Evan K. Nyer, 2009



- Learn the unique cleanup of groundwater and recent developments in technology, regulations, and approaches for mitigating newly monitored contaminants, as well as aboveground treatment
- Gain knowledge of treatment methods and regulations for arsenic, radon, 1,4-dioxane, MTBE, perchlorate, and NDMA among others detailed strategies for remediation
- Contains specific data on treatment methods as applied in the field

This book is essential for wastewater engineers, industrial managers, hydrologists, soil experts, government officials, and environmental lawyers who want to keep abreast of the latest developments in this still challenging field.

**Order Number: BK-0046**  
ISBN: 9780471657422, Pages: 432, Hardback

## Green Facilities Handbook Simple & Profitable Strategies for Managers

By Eric A. Woodroof, Ph.D., 2009



- Install and repair thermostats, humidistats, automatic controls, and oil or gas burner controls
- Learn the best ways to handle hydronics and steam line controls
- Deal with solid fuels and understand coal firing methods, review pipes, pipe fittings, piping details, valve installation, and duct systems

This guidebook covers everything you need to know to install, maintain, and repair the components that run, regulate, and fuel both old and new systems.

**Order Number: BK-0025**  
ISBN: 0881736074, Pages: 780, Hardback

## Sustainable Construction Green Building

Second Edition  
By Charles Kibert, 2007



- Learn the latest developments in the green building movement including coverage of LEED® 2009 and Sustainable Construction.
- Gain a detailed overview of the entire process of green building, covering the theory, history, state of the industry, and best practices in green building assessments specifically the dominant LEED® assessment system
- Contains information about high-performance green building design, building assessment, the building process, and ecological design

This book is broad enough to cover the needs of faculty and students in architecture, engineering, landscape architecture, interior design, and construction management, yet focused enough to serve as a reference for building owners and buyers of construction services.

**Order Number: BK-0048**  
ISBN: 9780470114216, Pages: 432, Hardback

## Project Management A Systems Approach to Planning, Scheduling, and Controlling

Tenth Edition  
By Harold Kerzner, 2009



- Gain a profound understanding of project management with scope changes, exiting a project, collective belief, and managing virtual teams
- Learn about the intricate framework of organizational behavior and structure vital to effective project management
- Contains more than twenty-five case studies, 400 discussion questions, 125+ multiple-choice questions

This book aligns its approach to the latest release of the Project Management Institute's Project Management Body of Knowledge (PMBOK® Guide), the new mandatory source of training for the Project Management Professional (PMP®) Certification Exam.

**Order Number: BK-0047**  
ISBN: 9780470278703, Pages: 1120, Hardcover

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# Technical Reference Books

## Energy Management Handbook

Seventh Edition

By Steve Doty and Wayne C. Turner, 2009



- Learn about waste heat recovery, HVAC systems, energy management and control systems, energy systems maintenance, alternative energy, indoor air quality and codes, standards and legislation
- Gain knowledge of every component of effective energy management, including economic analysis, boilers, steam systems, cogeneration, waste heat recovery, HVAC systems, motors and drives/electric energy management, energy management control systems, lighting, energy systems maintenance, alternative energy, sustainability and high performance green buildings, indoor air quality, thermal energy storage, codes and standards, natural gas purchasing, electric deregulation, commissioning, and measurement and verification

This book contains detailed illustrations, tables, graphs and many other helpful working aids.

**Order Number: BK-0026**

ISBN: 0881736090, Pages: 847, Hardback

## Plant Engineers & Managers Guide to Energy Conservation

Ninth Edition

By Albert Thumann, P.E., C.E.M. & Scott Dunning, Ph.D., P.E., 2008



- Learn both management and engineering strategies which can be utilized to slash energy costs by as much as 40% in industrial facilities
- Contains ready-to-apply guidelines for life cycle costing, electrical system optimization, lighting and HVAC system efficiency improvement, mechanical and process system performance, building energy loss reduction, financing energy projects, energy purchasing, and strategies for establishing an effective energy conservation-oriented maintenance program

This book reflects the latest advances and features material on motor drive systems, LEED®, measurement and verification, and building commissioning.

**Order Number: BK-0027**

ISBN: 0881735558, Pages: 460, Hardback

## Technical Reference Handbook

Fifth Edition

By E. P. Rasis, 2006



- Gain an overview of accepted symbols and practices described in ANSI/ASME Standard Y14.5M
- Learn complex formulas and technical concepts that are presented using simple language and illustrations that are introduced in a clear, straightforward manner with practical examples
- Contains expanded coverage of pressure formulas and glossary containing 370+ terms

This reference features an expanded appendix that includes additional tables, charts, and formulas.

**Order Number: BK-0043**

ISBN: 9780826934543, Pages: 297, Hardback

## Instrumentation

Fifth Edition

By Franklyn W. Kirk, Thomas A. Weedon & Philip Kirk, 2010



- Learn valuable instructional tools designed for training in group settings that provide all the resources needed for maximum flexibility and effectiveness and a technician-level approach to the files of instrumentation
- Obtain knowledge in the four fundamental instrumentation measurements of temperature, pressure, level, and flow, in addition to position, humidity, moisture, and typical liquid and gas measuring instruments
- Contains fundamental scientific principles, detailed illustrations, descriptive photographs, and concise text used to present the instrumentation topics

A CD-ROM is included that serves as a self-study aid to enhance the text content, it features Quick Quizzes®, Illustrated Glossary, Instrumentation Resources, Review Questions, Media Clips, and a link to ATPeResources.com.

**Order Number: BK-0019**

ISBN: 9780826934307, Pages: 691, Hardback

## Test Instruments

By Glen A. Mazur, 2005



- Obtain information on the safe, efficient, and practical use of electrical test instruments
- Learn the overview of typical electrical test instruments used for installation tests, process equipment operation, quality control, and troubleshooting activities
- Contains information on personal protective equipment based on National Fire Protection Association standard NFPA 70E®, Standard for Electrical Safety in the Workplace

This book features photographs that depict applications typically found in the field.

**Order Number: BK-0017**

ISBN: 9780826913258, Pages: 406, Paperback

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