



Featured Products

Ferris State University - EPA Certified Shoulder Patch or Window Decal

You've passed the test now show your customers with a Ferris State University EPA Certified Shoulder Patch! These shoulder patches are designed to enhance your professional image and show your compliance with EPA Regulation. Available singly or in a 4-pack. **Available to FSU EPA Section 608 or 609 Certified Technicians only.** Window Decal is 4" X 6"



- FSU Item No. 042 (Single Shoulder Patch)
- FSU Item No. 043 (4-Pack Shoulder Patches)
- FSU Item No. 072 (Single Window Decal)
- FSU Item No. 073 (4-Pack Window Decals)

EPA Certified Baseball Hats

You've passed the test now show your customers with a Ferris State University EPA Certified Baseball Hat! These hats are designed to enhance your professional image and show your compliance with EPA Regulation. **Available to FSU EPA Section 608 or 609 Certified Technicians only.**

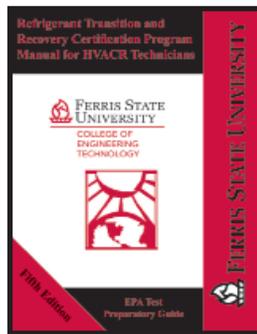


- Tan FSU Item No. 158
- Black FSU Item No. 159



**Refrigerant Transition and Recovery Certification Program Manual
EPA Test Prep Guide**

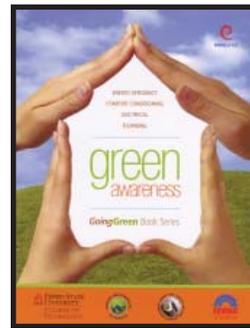
The Refrigerant Transition and Recovery Certification Program Student Manual/EPA Test Prep Guide for HVACR Technicians was designed to help technicians prepare for the EPA approved exam. This edition contains a 40 question sample test which will better help you to prepare for successful completion of all sections of the Section 608 Test.



FSU Item No. 008

**Green Awareness
Comfort Conditioning, Electrical,
Plumbing**

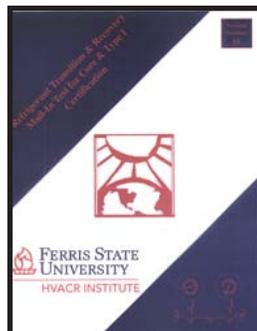
HVAC Excellence and Ferris State University agreed to work together to address the gap in "Green Mechanical" education. This partnership resulted in the development of this "Green Mechanical Awareness" manual. This manual is designed to provide a basic understanding of Green concepts, terminologies, systems, and the latest in Green mechanical technology.



FSU Item No. 136

Section 608 Core & Type I Mail-In Test

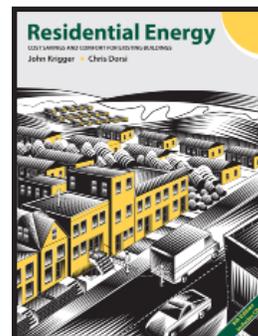
Did you know you can take your EPA Approved Section 608 Core & Type I certification test at home? The FSU HVACR Institute offers a mail-in Core & Type I test. The test comes complete with a concise study guide. Study in your spare time, take the 50 question open book test and mail it back to Ferris State University HVACR Institute. (Allow two weeks for grading - passing grade: 21 correct questions per section.) Available in both English and Spanish.



- FSU Item No. 004 (English)
- FSU Item No. 047 (Spanish)

Residential Energy

Residential Energy is an essential reference manual for home energy raters, energy auditors, weatherization technicians, carpenters, heating and air-conditioning specialists, insulation contractors, plumbers, electricians, and home-improvement enthusiasts. This new edition marks Residential Energy's maturation into the one complete reference book on energy efficiency for residential buildings. This book has nearly 400 illustrations, charts, and tables. The included compact disc contains a complete copy of the book with clickable cross-references, bookmarks, and searchable index. 320 pages, with 11 chapters and 24 appendices



FSU Item No. 156

EPA Section 609 Automotive Certification

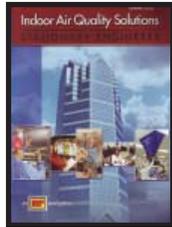
The EPA requires certification to work on motor vehicles... but you'll want it to work in hard to reach places. This newly revised 4th edition EPA approved self-study program developed by Delta – T Productions and Ferris State University certifies you to buy small cans of refrigerant in convenient sizes less than 20 pounds. Study in your spare time, take a 30 question open book test, and mail it to Ferris State University. (Allow 2 weeks for grading – you must answer 26 or more questions correctly to pass.) The study guide included with the test covers service procedures, system retrofitting, refrigerants and lubricants, equipment service guidelines and more.



FSU Item No. 003

Indoor Air Quality Solutions for Stationary Engineers

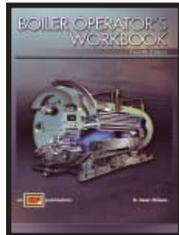
Indoor Air Quality Solutions for Stationary Engineers provides an overview of what IAQ is, instruments and testing procedures, and how to maintain IAQ in institutional and commercial facilities. Required safety practices, environmental protection, and common building stationary engineering applications are emphasized throughout, and references to ANSI, EPA, and ASHRAE standards are provided. The CD-ROM is a self-study aid with Quick Quizzes, an Illustrated Glossary, Flash Cards, Test Tool Procedures, IAQ Survey Checklists, IAQ Equipment Forms, Virtual Meters, Media Clips, and a link to ATPeResources.com. The Flash Cards of glossary terms and IAQ test equipment are ideal for preparing to mitigate IAQ problems.



FSU Item No. 005

Boiler Operator's Workbook

Boiler Operator's Workbook is arranged in a convenient question-and-answer format specifically designed for use in preparation for obtaining a boiler operator's license. This format makes the book easy to use as a refresher for boiler licensing examinations and for industrial and vocational boiler classes. The expanded answers, many with illustrations, explain the theory and practice of steam plant operations in a clear, concise manner. Key terms are italicized and defined in the text for additional clarity. Throughout Boiler Operator's Workbook, math calculations are used to obtain information. On many licensing examinations, the ability to set up math problems, assign values, and solve the problems is assumed. Questions on licensing examinations may also test the ability to transpose and use basic math equations to obtain the answers. Examples of these math equations are included in the chapter where the equation is introduced. Additional explanation and sample problems are given on the CD-ROM included with the text. The CD-ROM is designed as a self-study aid to enhance information presented in the book, and includes Quick Quizzes®, Flash Cards, Master Math™, an Illustrated Glossary, Sample Licensing Exams, Media Clips, and a link to ATPeResources.com. The Quick Quizzes® provide an interactive review of topics in a chapter. Flash Cards present an interactive review of common boiler terms. The Master Math™ problems provide a review of typical math problems encountered by boiler operators. The Illustrated Glossary provides a helpful reference to terms commonly used in industry. The Sample Licensing Exams button accesses four 25-question exams that provide practice in preparing for a boiler operator's license examination. The Media Clips button accesses a collection of video clips and animate graphics.



FSU Item No. 006

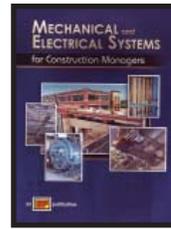
- ▶ LOOKING FOR AN EPA APPROVED TEST PROVIDER
- ▶ LOOKING TO UPGRADE YOUR CURRENT CERTIFICATION
- ▶ LOOKING FOR TRAINING MANUALS AND TEXTBOOKS
- ▶ NEED A REPRINT OF YOUR EPA CERTIFICATION CARD
- ▶ WANT INFORMATION ON R-410A SAFETY AND TRAINING

WE CAN HELP CALL US TOLL FREE
866-880-7674

Mechanical & Electrical System for Construction Managers

Construction managers must understand all aspects of a wide range of mechanical, electrical, and plumbing systems. Mechanical and Electrical Systems for Construction Managers provides an overview of these systems as required by general contractors, construction managers, and supervisors.

FSU Item No. 007



Refrigerant Transition and Recovery Certification Program Refresher Manual

The Refresher Manual was designed to assist technicians who have failed one or more sections of the EPA approved exam in which they need to be certified. Now it will prepare you even better as it was recently revised with updated information. With this new edition and the 100 sample test questions included in the manual, you will be better prepared to pass all sections of the EPA approved Section 608 test.

FSU Item No. 010



Concise Study Guide

The Concise Study Guide is written by Ferris State University HVACR Program Technical Instructor Michael Lafferty and Automotive Services Technology Professor Peter Alley. This study guide gives technicians another option for certification training. This guide places emphasis on the Core and Type I section of the EPA Section 608 Test but also covers the Type II and III Section of the test. This is a quick and efficient way to study for the EPA approved exam.

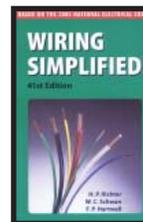
FUS Item No. 013 (English)
FSU Item No. 060 (Spanish)



Wiring Simplified

Wiring Simplified, 40th edition, has been updated to the 2002 National Electrical Code by NEC expert Frederic P. Hartwell. This book translates NEC rules into easy-to-understand explanations of how to do complete, safe jobs using the latest wiring practices. New features in the 40th edition All new or improved illustrations and 16 added pages that cover the latest developments in arc-fault circuit interrupters, feeders and the panels they supply, motor disconnects, required workspace around electrical panels, safe installation of emergency backup generators, underground-to-aboveground wiring transitions, coping with existing aluminum branch circuit wiring

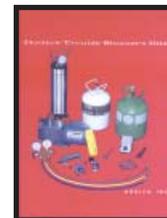
FSU Item No. 018



Doolin's Troubleshooters Bible

More than 200,000 servicemen own the DOOLIN'S TROUBLE SHOOTERS BIBLE. Hundreds of trade schools and community colleges use this book in their training programs. This book rides in the service trucks, is the shop manual of the trade and is used extensively by owners of equipment who maintain their own units or have maintenance departments. No technician should be without this book.

FSU Item No. 019 (English)
FSU Item No. 020 (Spanish)



Compression Systems

This module includes detailed information on compression ratio and volumetric efficiency. Practical examples and solutions are included to help the reader understand why some systems are more efficient than others. The discharge and suction strokes of reciprocating compressors and how they relate to compression ratio and volumetric efficiency are explained. Also covered in this module are; System flooding Migration Slugging Automatic pump-down systems—with electrical circuit analysis Crankcase heaters Suction line accumulators Oil separators

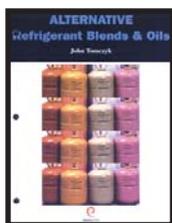
FSU Item No. 021



Alternative Refrigerant Blends & Oils

Ozone depletion, direct and indirect effects of global warming, radiation, and the Federal Clean Air Act have created the necessity for the development of new refrigerants and oils. Covered in this module are alternative refrigerants to CFCs and HCFCs, the Montreal Protocol, legislation and regulation, regulatory requirements, equipment certification, refrigerant leaks, mandatory technician certification, refrigerant sales restriction, reclaim certification, safe disposal requirements, record keeping, hazardous waste disposal, and planning for the future.

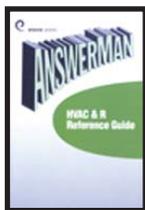
FSU Item No. 022



AnswerMan Reference Guide

The AnswerMan Pocket Reference Guide is a handy pocket sized reference manual that every air conditioning and refrigeration technician MUST have. AnswerMan Pocket Reference Guide isn't just a book, it's a tool that you'll use everyday. This book is a compilation of charts, graphs, formulas, and troubleshooting guidelines. The Reference Guide contains: temp/pressure/enthalpy/entropy charts, troubleshooting charts, english/metric conversions, gas laws/formulas, material insulation values, electrical/wire capacity/motor spec/electronics fastener/torque specs, pipe and tubing/copper/aluminum/steel, taps/dies/drill sizes and much more Over 140 pages of useful information.

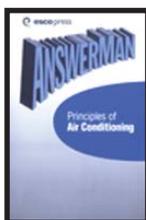
FSU Item No. 023



AnswerMan Principles of Air Conditioning

The AnswerMan Principles of Air Conditioning is an excellent training manual for the beginning technician and a great review for the journeyman. Subjects covered include: temperature and pressure, basic thermodynamic principles, physical matter, sensible and latent heat, gas laws, refrigerant cycle, refrigerants, environmental impact of CFCs, system service and troubleshooting.

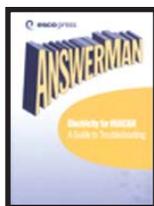
FSU Item No. 024



AnswerMan Electricity for HVACR Technicians

Electrical problems account for more than 80% of all service scenarios. "Electricity for HVAC&R - A Guide to Troubleshooting" provides the technician with the information necessary to successfully diagnose electrical problems. It is a practical view of what electricity is and how it works. It is more than just a textbook. Each subject is addressed by answering the most frequently asked questions about electricity.

FSU Item No. 025



AnswerMan Combo

Order all three AnswerMan Books and Save

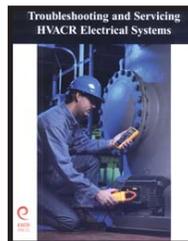
FSU Item No. 026



Electrical Theory & Application for HVACR

This book details HVAC&R electrical system operation, systematic troubleshooting and service. It was written with the non electrician in mind. It provides service technicians with all the information necessary to accurately diagnose and solve electrical system faults. Sections on safety, schematic interpretation, system components, motors, electric heat and troubleshooting are included.

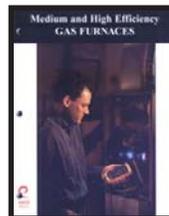
FSU Item No. 027



Medium and High Efficiency Gas Furnaces

This unique field guide discusses each important aspect of the medium to high efficiency gas furnaces used in central heating applications, from the combustion process to the venting of the furnace itself. The author Richard Jazwin also provides detailed information on other related topics including: furnace construction, controls and components, ignition systems, sequences of operation, basic service procedures, and electric / electronic troubleshooting and repair.

FSU Item No. 028



Troubleshooting and Servicing Modern Air Conditioning & Refrigeration Systems

Troubleshooting and Servicing Modern Air Conditioning and Refrigeration Systems gives service technicians all the information needed to accurately diagnose and solve various systems problems. This book details a variety of topics and troubleshooting procedures, including the following: Refrigerant pressures, states, and conditions, Subcooling and superheat, Compression systems, Metering devices, System charge, Diagnosing air conditioning systems, Systematic troubleshooting, Alternative refrigerants, Refrigerant blends and oils, Leak detection - evacuation and clean up procedures, Ozone depletion and global warming.

FSU Item No. 029

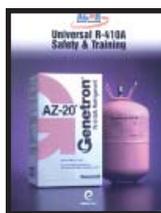


Universal R-410A Safety & Training Manual

This book was developed to provide field service personnel with the necessary training and practical knowledge to safely perform service on systems containing R-410A and R-407C.

In addition, this manual includes information on: the R-22 phase-out, appropriate refrigerant and oil applications, service techniques, as well as safe handling of R-410A.

FSU Item No. 031

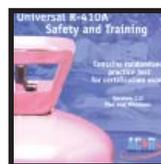


Universal R-410A Safety & Training Interactive CD-Rom

This interactive CD-Rom provides field service personnel with the necessary training and practical knowledge to safely perform service on systems containing R-410A and R-407C.

In addition, this CD includes information on: the R-22 phase-out, appropriate refrigerant and oil applications, service techniques, as well as safe handling of R-410A. Each category contains practice questions. All of the Information needed to prepare for the R-410A Safety Certification is contained in this interactive CD-ROM.

FSU Item No. 040



Purchase FSU Item 031 Universal R-410A Safety & Training Manual and FSU Item 040 Universal R-410A Safety & Training Interactive CD-ROM together and receive a 10% discount on both items!

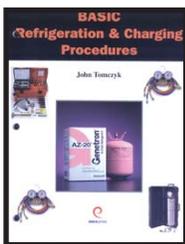


COLLEGE OF
ENGINEERING TECHNOLOGY

Basic Refrigeration & Charging Procedures

Refrigerant pressures, states and conditions are covered, as well as how they apply to the refrigeration system. Vapor pressures, subcooling, superheat, saturation, latent heat, and sensible heat are explained and applied to the refrigeration cycle. Basic system components, their functions and applications are included. Detailed explanations of each point in the refrigeration cycle will clarify questions the reader may have.

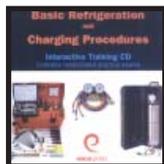
FSU Item No. 034



Basic Refrigeration & Charging Procedures Interactive CD-ROM

This interactive CD is an excellent training tool that fully describes and explains the refrigeration cycle. The CD contains information on refrigerant pressures, states and conditions as well as how they apply to the refrigeration system. Vapor pressures, subcooling, superheat, saturation, latent heat, and sensible heat are explained and applied to the refrigeration cycle. Basic system components, their functions and applications are included. Each point in the refrigeration cycle is explained in detail.

FSU Item No. 074

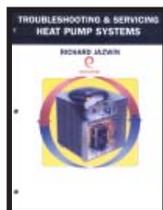


Purchase FSU Item 034 Basic Refrigeration & Charging Procedures Manual and FSU Item 074 Basic Refrigeration & Charging Procedures Interactive CD-ROM together and receive a 10% discount on both items!

Troubleshooting and Servicing Heat Pump Systems

"Troubleshooting and Servicing Heat Pumps Systems" is a unique field guide which discusses in detail the various aspects of Heat Pump Selection, installation, and service. This book covers basic heat pump operation, including: A review of the refrigeration cycle, heat pump configurations, 4-way valves, electrical schematics, defrost systems, controls and accessories, the scroll compressor, and service and troubleshooting.

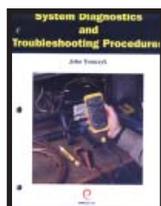
FSU Item No. 038



System Diagnostics and Troubleshooting Procedures

This module provides the reader with the necessary information to successfully diagnose air conditioning and refrigeration system problems. Systematic troubleshooting and diagnostics of: airflow problems, refrigerant cycle malfunctions, suction and liquid line restrictions, oil logged evaporator, undercharge, overcharge, compressor inefficiencies, dirty condenser, air in the system, restricted metering device, and low and high condenser entering air temperatures are detailed. Systematic diagnosis of the above listed problems using service checklists to assist the service technician to quickly and efficiently troubleshoot a system is explained.

FSU Item No. 044



Fundamentals of Electrical Troubleshooting Interactive Training CD-ROM

From the author of the best-selling module on air conditioning, this CD-ROM is the next step in the author's series on air conditioning. All totaled, there are four to six hours of training packed on the CD that can be used around your school.

FSU Item No. 045

The Fundamentals of Electrical Troubleshooting CD-ROM is not compatible with Windows 2000 or Windows XP Home Edition. Site licenses are available for a cost of \$25.00 per



NO LONGER AVAILABLE

Carbon Monoxide a Clear and Present Danger

This manual is a collaborative effort of several of the brightest in the field of carbon monoxide detection, combustion analysis, and remediation. This book is intended to address carbon monoxide issues encountered by; First Responders (Fire Department EMT personnel and other Paramedics) Inspectors (local government and independent home inspectors) Technicians (HVAC, Plumbers, and utility company workers)

FSU Item No. 062



Carbon Monoxide Facts & Testing DVD

With the increased awareness of combustion and venting issues, this DVD is a must for every HVAC professional. Running Time: 31:09

FSU Item No. 015



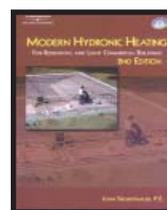
Purchase FSU Item 062 Carbon Monoxide a Clear and Present Danger and FSU Item 015 Carbon Monoxide Facts & Testing DVD together and receive a 10% discount on both items!

Modern Hydronics

This innovative book covers the state-of-the-art hydronic heating systems for residential and light commercial buildings. It emphasizes cutting-edge technology in water-based heating systems including: condensing boilers, radiant floor heating, and microprocessor-based control systems. This book also contains extensive details on over 60 heat exchangers and nearly 300 diagrams of system piping/control schematics. 2nd Edition

FSU Item No. 069

ISBN.: 0766816370



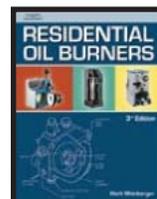
NO LONGER AVAILABLE

Residential Oil Burners

This comprehensive reference manual provides current information on the combustion process, oil burners, heating systems, plus electrical systems and equipment. This new edition features troubleshooting charts and systems accompanied by detailed instructions on how to use them. This comprehensive reference manual also includes the latest technological advancements in venting and hot water heating systems, including equipment from Canada and China. European and Japanese equipment is also covered in detail. New wiring diagrams, line drawings and photographs are featured throughout the book. 2nd Edition

FSU Item No. 070

ISBN No.: 0766818284



NO LONGER AVAILABLE

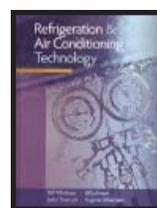
NO LONGER AVAILABLE

Refrigeration & Air Conditioning Technology

Refrigeration and Air Conditioning Technology, 6th Edition, a time-honored best seller, has been updated and revised to provide superior hands-on information needed to successfully maintain and troubleshoot today's complex heating, air conditioning, and refrigeration systems. The new sixth edition contains units updated to include advances or changes in technology, procedures, and/or equipment. Over 250 new images have been added to emphasize the practical application approach to the book. It fosters a solid foundation and understanding of environmental problems and their solutions, and displays a depth and detail of theory, diagnostics, and repair procedures that make this a fitting book for basic HVACR education as well as upgrading and certification training for technicians in the field.

FSU Item No. 071

ISBN: 9781428319363



Condensing Gas Furnaces - DVD

An in-depth explanation of fundamentals, basic operation and a complete step by step troubleshooting aid makes this video a must have for the heating and air conditioning technician. TIME: 45:00

FSU Item No. 082



Servicing Room A/C - DVD

Many of the problems of air conditioners either result from electrical failure, mechanical failure or lack of air flow. This video takes you through step-by-step troubleshooting, disassembly and repair of most common failures you will see in room air conditioners. TIME: 32:42

FSU Item No. 083



Refrigeration Systems Troubleshooting - DVD

Refrigeration systems troubleshooting is made easy if you understand the simple steps and processes needed in evaluating conditions while servicing. (Type I system is used in DVD for demonstration purposes) TIME: 21:53

FSU Item No. 084



Air Conditioner Fundamentals - DVD

Color animated graphics show the operation of a room air conditioner refrigeration system, the complete refrigeration cycle and explain how the components work together to accomplish the refrigeration process. TIME: 16:09

FSU Item No. 081



Refrigeration Systems Troubleshooting - DVD

Refrigeration systems troubleshooting is made easy if you understand the simple steps and processes needed in evaluating conditions while servicing. TIME: 21:53

FSU Item No. 084



Servicing an Indoor Air Handler - DVD

Air handler servicing will be easy once you view this video. We give you all the information you need to diagnose and repair most every problem you will face in servicing this product. TIME: 36:11

FSU Item No. 086



Refrigeration Fundamentals for Heat Pumps - DVD

Eliminate the mystery behind the operation of a heat pump with this simple, down-to-earth video. We explain the three heat pump cycles, the operation of the reversing valve, system metering device and supplemental heat systems. Animated, color graphics show what happens when the heat pump changes cycles. Time: 23:02

FSU Item No. 087



Hydronics Systems - Heating & Cooling

From hot water heat to chilled water systems, this title provides a complete training program covering all aspects of hydronics. TIME: 41:21

FSU Item No. 160



Purchase 3 or more DVD's at the same time and receive a 10% discount on all of them!

HVAC/R Terminology

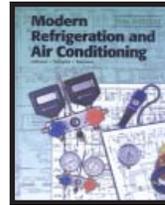
This one-of-a-kind HVAC/R technical reference guide incorporates all the HVAC/R technical terms used in the industry today, and is an indispensable resource for professionals dealing with electricity, controls, refrigeration cycle, heating, psychometrics, boilers, heat pumps, heat transfer, load calculations and more. Covers the entire industry, providing the most comprehensive collection of HVAC/R terms available in one concise location.

FSU Item No. 097



Modern Refrigeration and Air Conditioning

Modern Refrigeration and Air Conditioning provides an excellent blend of theory with job-qualifying skills, making it a leader in the refrigeration and air conditioning field! This comprehensive text teaches both fundamental principles and the service techniques needed to diagnose and remedy HVAC problems. Modern Refrigeration and Air Conditioning contains the most recent information and advances in the field needed to prepare the technician for success in today's world.



This edition includes up-to-date material on EPA rules and regulations covering refrigerant recovery, recycling, and reclaiming. Both students and practicing technicians will benefit from the comprehensive approach of this text, which provides a solid and thorough knowledge of all aspects of refrigeration and air conditioning.

FSU Item No. 098
ISBN: 1590702808

DeWalt HVAC Technician Certification Manual

This book is geared toward those individuals who are preparing for industry certification examinations. One of the main reasons this book is no longer available is that there is a large number of different certification options, so an individual who is unsure about which certification test is best for their case seeks information from me to help him make the best choice. As part of this discussion, the author discussed the recertification process, where applicable.



NO LONGER AVAILABLE

FSU Item No. 099

DeWalt HVAC Professional Reference Guide

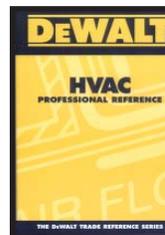
Quite often, we are looking for that one formula, "rule of thumb" or symbol and can never seem to find it at the exact moment we need it.

NO LONGER AVAILABLE

Here are some of the topics covered in this book:

- HVAC Formulas and Conversions
- Refrigeration
- Heating and Ventilation
- Design and Installation
- Plan Symbols
- Electrical and Motors
- Conversion Factors and Units of Measure
- Materials and Tools
- Troubleshooting

FSU Item No. 100



NO LONGER AVAILABLE

Superheat Calculator R-410A

Used for R-410A Systems only.

FSU Item No. 101



Superheat Subcooling Calculator HCFC-22

Used for HCFC-22 Systems only.

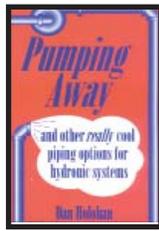
FSU Item No. 102



Pumping Away

The drawings in this book were kept simple. Even if you've never worked with hydronics before, you'll be able to follow them. The first part of the book deals with boiler room piping and explains how you can put the discoveries of the late, great Gil Carlson to work for you. The second half of the book takes the "Pumping Away" boiler-room piping design and applies it to an entire menu of piping options.

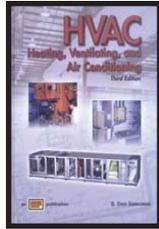
FSU Item No. 104



HVAC - Heating, Ventilating, and A/C

The main focus of the text is on HVAC unit operation, HVAC unit mechanical, electrical, and pneumatic systems, and the safety practices required to work on HVAC units and systems. The textbook also covers the latest technology in combustion of fuels, heat pumps, control systems, and system design. The CD-ROM is a self-study aid with Quick Quizzes, an Illustrated Glossary, Media Clips, and Reference Material.

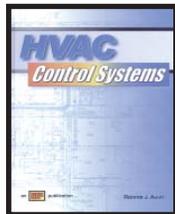
FSU Item No. 106
ISBN.: 0826906788



HVAC Control Systems

Topics included are specifically designed for HVAC and building maintenance technicians. This textbook provides an introduction to HVAC fundamentals, energy sources and control principles. Pneumatic, electromechanical and electronic components and control systems are covered. This textbook also covers the latest technology in energy efficiency practices, building automation systems, networking, direct digital control, building automation system retrofitting, maintenance management and troubleshooting principles.

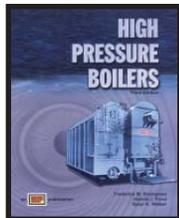
FSU Item No. 108
ISBN.: 0826907504



High Pressure Boilers

The content and format of the book are specifically designed for use in preparation for obtaining a boiler operator's license. Contents include steam boiler operations, fittings, boiler operation safety, combustion and computer-assisted combustion controls, boiler water treatment, licensing, and a comprehensive illustrated Glossary.

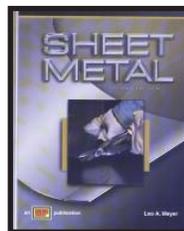
FSU Item No. 109
ISBN.: 0826943004



Sheet Metal

This updated edition of a classic American Tech textbook provides an introduction to the fundamentals of layout, cutting, forming, and fabrication of sheet metal. It can serve as a useful training tool and reference for students, apprentices, and technicians in the trade. While the tools and technology in the sheet metal trade continue to evolve, basic principles that are fundamental to working with sheet metal remain. Sheet Metal presents basic metalworking principles and builds on this knowledge throughout the book.

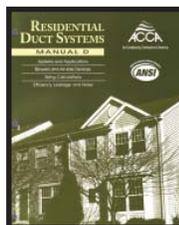
FSU Item No. 110
ISBN.: 0826919103



ACCA Manual D

Design a residential duct system in less time with the streamlined duct sizing procedure in this revised edition of Manual D. You can apply this procedure to constant volume systems and zoned, variable air volume systems, over the full range of duct construction materials. Manual D also includes the most comprehensive equivalent length data ever published. 298 pp.

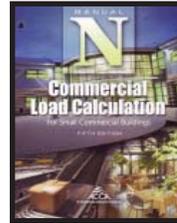
FSU Item No. 111



ACCA Manual N

Manual N gives you a faster way to estimate heating and cooling loads for small and mid-size commercial structures, a simplified version of the procedure in the ASHRAE GRP 158 Load Calculation Manual. Manual N shows you how to use the Cooling Load Temperature Difference (CLTD) method to estimate heat gain through opaque surfaces and the cooling-load-factor method to estimate solar gains through glass. 700 pp.

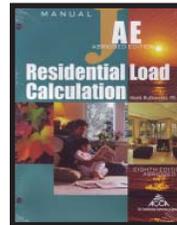
FSU Item No. 112



ACCA Manual JAE

This abridged version of Manual J, 8th Edition, provides complete instructions for estimating heat loss and heat gain for residential structures. This abridged edition of Manual J is sufficient for learning the Manual J procedures and for undertaking hand calculations on a varied number of home applications. (258 pages)

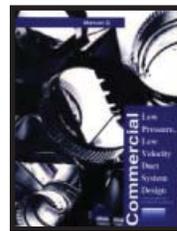
FSU Item No. 113



ACCA Manual Q

Manual Q is your one-stop reference book on the low-pressure, low-velocity systems used in small and mid-size commercial buildings. Manual Q gives you time-saving "quick" fitting loss tables, as well as a complete set of fitting loss tables compiled from the ASHRAE and SMACNA handbooks. (316 pages)

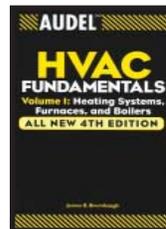
FSU Item No. 131



Audel HVAC Fundamentals - Vol. 1

From the background and basics of heating systems to the newest chip-based technology, this first volume of Audel's HVAC Library gives you comprehensive information you need on the job. Whether you're installing, servicing, repairing, or troubleshooting an old or new heating system, you'll find what you're looking for, from wood and coal furnace maintenance to new calculations and the latest environmental technologies and regulations.

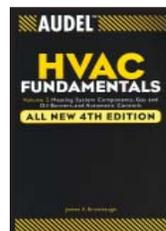
FSU Item No. 115



Audel HVAC Fundamentals Vol. 2

Whether you're an apprentice or a veteran HVAC technician, you know that technology changes and you need to keep up. This fully revised guidebook covers everything you need to know to install, maintain, and repair the components that run, regulate, and fuel both old and new systems. From oil burners and steam line controls to the newest chip-based technology and environmental regulations, Volume 2 helps you keep the heat on. 672 pp.

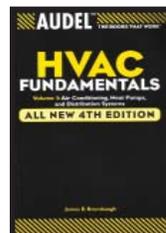
FSU Item No. 116



Audel HVAC Fundamentals Vol. 3

This third volume of Audel's HVAC Library gives you a comprehensive, hands-on guide to installing, servicing, and repairing all basic air-conditioning systems in both new and older construction. You'll also find complete coverage of specialized heating units—radiators, radiant heating systems, stoves, fireplaces, heat pumps, and indoor/outdoor pool heaters, plus fans, exhaust systems, air filters, and more. 696 pp.

FSU Item No. 117



Audel Refrigeration Home & Commercial

Refrigeration: Home and Commercial is a standard reference for the installation, operation, and servicing of refrigeration equipment. Topics covered include the fundamentals of refrigeration, refrigerants, compressors, installation methods, thermoelectric cooling, and absorption systems, and there is a special emphasis on electrical circuitry. Refrigeration also discusses locker plants, brine systems, and ice-making systems, cold storage, fans, blowers, piping, and pumps. Load calculations are explained and reviewed. Refrigeration has been completely revised and updated and deals with both new and older equipment. 770 pp.

FSU Item No. 118

Audel Pocket Reference

When you need to check specs, confirm measurements, or make a quick metric conversion on the job, find the answers quickly and easily—right in your pocket. Your one-stop reference for Conversion tables, electrical formulas, pipe thread standards, and motor ampere rating, Fuel cost comparisons, Offset calculations and valve details, Gas and oil burner specifications, Pipe performance data, Weather and design factors affecting heating/cooling calculations and Troubleshooting guidelines.

FSU Item No. 119

Fundamental Refrigeration

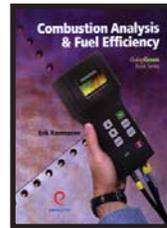
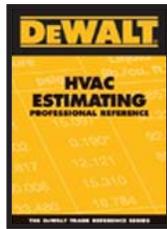
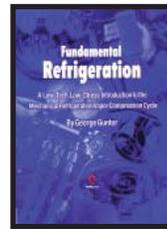
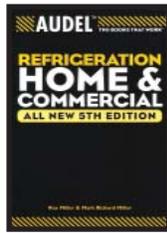
Fundamental Refrigeration covers all the basic principles and theories of refrigeration and air conditioning systems. Written in easy to understand language, this book contains a wealth of necessary fundamental knowledge. A low-tech, low stress introduction to the mechanical vapor compression cycle. Covering a broad range of information about refrigeration and air conditioning systems, this book is not only for those entering the field, but also for seasoned professionals who want a solid review of the basic principles.

FSU Item No. 130

Dewalt HVAC Estimating - Professional Reference

Mechanical estimators, building contractors, and technical trade contractors alike will benefit from the straightforward, must-know HVAC Estimating information that this book provides. The Dewalt HVAC Estimating Professional Reference guides readers through each step of the HVAC bidding process, starting with the essential information for business opportunities, through estimating, conducting cost analysis, reviewing contracts, and finally, to closing the deal. On-site worksheets, "Getting the Job" tips, and math shortcuts offer additional tools, making this a concise yet comprehensive resource for anyone preparing to bid for an HVAC job.

FSU Item No. 132



Combustion Analysis & Fuel Efficiency

Readers should expect to increase their knowledge of combustion, the combustion process and combustion control.

Topics covered include: The dynamics of Carbon Dioxide production, The release of heat and the Oxygen relationship, The living breathing appliance how to ensure that your appliance is not suffocating. The combustion analysis manual is intended to raise the awareness about all things combustion and what all technicians should know being in the HVAC/R trade.

FSU Item No. 133

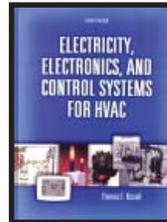
BTU Buddy Notebook



The BTU Buddy Notebook is a collection of more than 50 unique service call scenarios conducted by an HVAC technician which describe real-life service scenarios related to troubleshooting. Many high quality images help to illustrate troubleshooting techniques and the equipment being serviced.

FSU Item No. 134

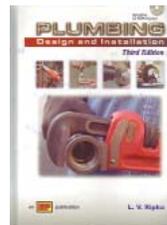
Electricity, Electronics & Control Systems for HVAC



Electricity, Electronics, and Control Systems for HVAC was written to help students understand how to install, troubleshoot and repair electrical parts of air-conditioning, heating, and refrigeration systems. The author uses over 20 years of experience to simplify electrical theory, show the operations of motors and controls and teach various troubleshooting techniques. Chapters are devoted to reading and writing diagrams and a unique chapter is included on how to find and keep a job. With strong visuals and a clear presentation, this book is simple enough for beginners yet detailed enough to serve as a reference in the field.

FSU Item No. 135

Plumbing Design and Installation



Plumbing Design and Installation is a comprehensive text used by apprentices and plumbing students to develop basic competencies. The text thoroughly describes how to design, install, and test plumbing systems in residential and commercial settings. Topics covered include safety, tools and materials, common joints, and common plumbing systems. This third edition features new chapters on service, repair, and licensing.

FSU Item No. 157

Have Questions?
Call Us Toll Free
(866) 880-7674

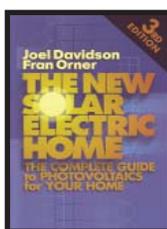
Going Green

The New Solar Electric Home

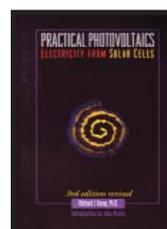
The original Photovoltaics How-To Handbook, acclaimed as "The Best of the Books," is now revised, expanded & updated for our New Age of Photovoltaics. Condensing years of hands-on & industry experience, PV pioneers Joel Davidson & Fran Orner tell you everything you need to know to go solar. The third edition of this how-to classic provides the facts, guidelines, tips & tools—worksheets, formulas, diagrams, online. Whether you do-it-yourself or hire professionals. Grid-connect or off-grid. Wherever you live, sunbelt, snowbelt or in-between.

FSU Item No. 138

Page 7



Practical Photovoltaics



Practical Photovoltaics, the now-classic reference on solar electricity, offers a unique combination of technical discussion and practical advice. Physicist, lecturer, and solar-home dweller Richard Komp explains the "how" and the "how-to" of PV, while providing valuable information on the industry, new developments, and the future. The book is a comprehensive guide to the theory and reality of solar electricity, as well as a detailed installation and maintenance manual. A well-illustrated appendix offers step-by-step instructions for constructing your own solar module, a creative approach to demystifying the technology.

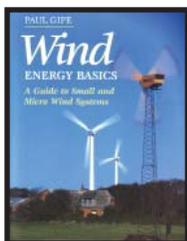
FSU Item No. 139

Going Green

Wind Energy Basics

An excellent introductory volume for those seeking to understand the ways the new, smaller wind turbines work and their unique potential for providing inexpensive, reliable energy to homes, farms, and businesses. Complete with illustrations, diagrams, and charts, and accessible enough to be used with students.

FSU Item No. 140



The Homeowner's Guide to Renewable Energy

The Homeowner's Guide to Renewable Energy tells you how. It starts by outlining the likely impacts of fossil fuel shortages and some basic facts about energy. It then discusses energy conservation to slash energy bills and prepare for renewable energy options. Focusing carefully on specific strategies needed to replace specific fuels, the book then examines each practical energy option available to homeowners:

- solar hot water, cooking and water purification
- space heat: passive and active solar retrofits
- wood heat
- passive cooling
- solar electricity
- wind-generated electricity
- electricity from microhydropower sources, and emerging technologies -- hydrogen, fuel cells, methane digesters and biodiesel

The Homeowner's Guide to Renewable Energy gives readers sufficient knowledge to hire and communicate effectively with contractors and, for those wanting to do installations themselves.

Part of the Mother Earth News Wiser Living Series

FSU Item No. 141

Solar Water Heating

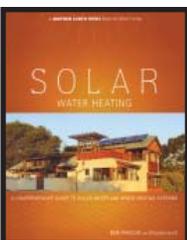
Solar Water Heating fills this gap. It reviews the history of solar water & space heating systems from prehistory to the present, then presents the basics of solar water heating, including an introduction to modern solar energy systems, energy conservation and energy economics. Drawing on the author's experience as an installer of these systems, the book goes on to cover:

- Types of solar collectors, solar water and space heating systems and solar pool heating systems, including their advantages and disadvantages
- System components, their installation, operation, and maintenance
- System sizing and siting
- Choosing the appropriate system

Since people often get turned off by the up-front cost, the book focuses especially on the financial aspects of solar water or space heating systems, clearly showing that such systems can save significant costs in the long run. Well-illustrated, the book is designed for a wide readership from the curious to the student or professional.

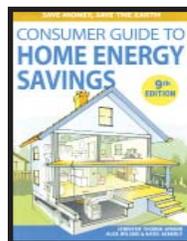
Part of the Mother Earth News Wiser Living Series

FSU Item No. 142



Consumers Guide to Home Energy Savings

Well-organized and highly readable, The Consumer Guide to Home Energy Savings begins with an overview of the inter-relationships between energy use, economics and the environment. Chapters focus on specific areas in the home, such as electronics, lighting, heating, cooling, ventilation, kitchen and laundry, and provide helpful explanations for each, including:



- describing energy use characteristics
- drawing comparisons between the available technologies
- outlining the most cost-effective repair and replacement options
- providing step-by-step guidance for finding the right equipment
- describing how the equipment operates, and
- summarizing how much energy is used or lost

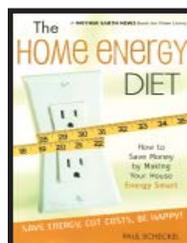
Included are tips on improving existing equipment, and guidance for when and why consumers should purchase new energy-efficient equipment, as well as a reminder to check local government and utility incentives for purchase or retrofit grants.

Part of the Mother Earth News Wiser Living Series

FSU Item No. 143

The Home Energy Diet

The Home Energy Diet answers all these questions and more, while helping readers take control of their personal energy use and costs so they can save money, live more comfortably, and help the environment. Energy auditor Paul Scheckel first explores energy literacy, and then describes how your home uses - and loses - energy you pay for via: Electricity, Hot water, Heating and air conditioning, Windows, walls and insulation.

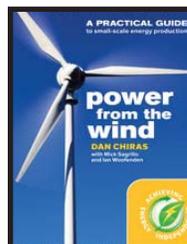


The Home Energy Diet involves readers in learning about their own homes by measuring, metering, investigating, and considering habits related to household energy use, then learning how to quantify energy consumption and cost, and to make informed decisions about cost-effective improvements and upgrades.

Part of the Mother Earth News Wiser Living Series

FSU Item No. 144

Power from the Wind



Faced with frequent power outages, skyrocketing energy costs, and constant reminders of the impacts of conventional energy sources, homeowners and businesses are beginning to explore ways to use energy more efficiently and to generate their own electricity to reduce fuel bills and their carbon footprint and to achieve greater independence.

Power From the Wind is an easily understandable guide for individuals and businesses interested in installing small wind energy system. Written for the layperson, this practical guide provides an accurate and unbiased view of all aspects of small wind energy systems. This book is designed to help readers make the smartest, most economical choices. Readers will gain the knowledge they need to make wise decisions during the design, purchase and installation of small wind energy systems and to communicate effectively with wind system installers.

FSU Item No. 145

What is Green? "Green," in general, encompasses the entire movement to become more environmentally conscious. You can go green in several ways, from powering your home with green energy or by changing small things in your everyday life like light bulbs. Green can apply to the way you fly, the way you drive, the way you build and more.

Interested in "Green" certification? Call us toll free at (866) 880-7674 to learn more about our "Green Awareness" certification program!