



Refrigeration and Air Conditioning Technology

By Bill Whitman, Bill Johnson, John Tomczyk

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The "best" in heating, cooling, and refrigeration just got better! This 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. 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 HVAC-R education as well as upgrading and certification training for technicians in the field. The fifth Edition includes information on typical operating conditions, and offers ample systematic troubleshooting techniques and scenarios with an eye to improving reader's skills. This book has been developed around the National Skill Standards for HVAC-R technicians as funded by the U.S. Department of Education, and contains easy-to-understand language for grasping fundamental and advanced concepts in the HVAC-R field.

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Editorial Review

Review

Theory of Heat. Safety, Tools and Equipment, Shop Practices. Basic Automatic Controls. Electric Motors. Commercial Refrigeration. Air Conditioning (Heating and Humidification). Air Conditioning (Cooling). All-Weather Systems. Domestic Appliances. Chilled-Water Air Conditioning Systems.

About the Author

Now retired from teaching and writing, Bill Whitman has contributed a wealth of academic expertise as well as industry knowledge to this book. Mr. Whitman graduated from Keene State College in Keene, New Hampshire with a bachelor's degree in Industrial Education. He received his master's degree in School Administration from St. Michael's College in Winooski, Vermont. After instructing drafting courses for three years, Mr. Whitman became the Director of Vocational Education for the Burlington Public Schools in Burlington, Vermont -- a position he held for eight years. He spent five years as the Associate Director of Trident Technical College in Charleston, South Carolina. Mr. Whitman was the head of the Department of Industry for Central Piedmont Community College in Charlotte, North Carolina, for 18 years.

Now retired, Bill Johnson has taught heating, air conditioning and refrigeration for more than two decades in various technical colleges and factory schools. A graduate of Southern Technical Institute, a branch of Georgia Tech in Atlanta, Georgia, he has also served as Service Manager for a major manufacturer for six years. Mr. Johnson owned his own HVAC/R business for 10 years and has been a member of the Refrigeration Service Engineers Society and the American Society of Heating Refrigerating Air Conditioning Engineers. His authoring credits include three major textbooks on the market today as well as their ancillary materials. He also writes a monthly article -- BTU Buddy - that is available online.

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