



## HVAC Equations, Data, and Rules of Thumb, Third Edition

By Arthur Bell, W. Larsen Angel



**HVAC Equations, Data, and Rules of Thumb, Third Edition** By Arthur Bell, W. Larsen Angel

**This comprehensive volume, often called the “HVAC bible,” has been thoroughly updated to cover the latest code changes, equipment, and techniques**

*HVAC Equations, Data, and Rules of Thumb, 3e* offers all of the information an HVAC student or professional needs in one resource. The book thoroughly explains the expansion of piping systems and temperature limitations of new materials such as polyethylene, polypropylene, PVC, CPVC, and PEX. Detailed information is included for all types of facilities, including offices, hotels, hospitals, restaurants, commercial spaces, and computer rooms.

This practical handbook reflects all the latest code changes—including the ASHRAE standards—and explains how to interpret and put them to use. It includes completely updated coverage of new pumps, chillers, air handling units, cooling equipment, boilers, and pipe material. You will get complete coverage of sustainability organizations that have become more important since last edition, including LEED, USGBC, Energy Star.

- Features hundreds of equations and rules for everything from ductwork to air-handling systems
- Includes a brand-new chapter on sound, vibration, and acoustics
- Contains an updated list of equipment manufacturers for all products featured

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**Bibliography**

- Sales Rank: #468411 in eBooks
- Published on: 2015-12-22
- Released on: 2015-12-22
- Format: Kindle eBook

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### Editorial Review

#### About the Author

**Arthur A. Bell, Jr., P.E.**, is a registered professional engineer and certified mechanical, plumbing, fire, and energy conservation code official in the Commonwealth of Pennsylvania with more than 31 years of experience in the design of HVAC systems. In addition, he has been involved in the design of plumbing systems, fire protection systems, and construction field engineering-mechanical systems. Mr. Bell is also the author of *HVAC Design Portfolio*, published by McGraw-Hill.

**W. Larsen Angel, P.E., LEED AP**, is a registered professional engineer in the State of Maryland with more than 25 years of experience in the design of HVAC systems. In addition, he has been involved in the design of plumbing systems and electrical systems. Mr. Angel is also the author of *HVAC Design Sourcebook*, published by McGraw-Hill.

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