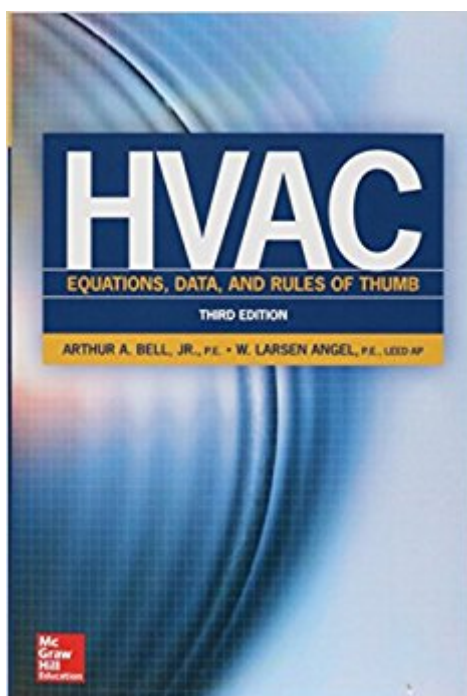


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# HVAC Equations, Data, And Rules Of Thumb, Third Edition (Mechanical Engineering)



## Synopsis

“Tricks of the Trade” For State-of-the-Art HVAC Design on Construction Jobs of Any Size! This fully revised, industry-standard handbook presents a wealth of HVAC design information encompassing all types of facilities—from offices and hospitals to commercial spaces and computer rooms. Written in an outline format for ease of use, this practical reference offers hundreds of field-tested equations and rules of thumb and features all-new coverage of the latest building components and materials. HVAC Equations, Data, and Rules of Thumb, Third Edition, reflects all the latest changes to the codes and standards used in the industry—including ASHRAE, ICC, NEC, and NFPA—and clearly shows how to interpret and put them to use. This thoroughly updated third edition covers:

- Definitions
- Equations
- Rules of Thumb for Cooling, Heating, Infiltration, Ventilation, Humidification, People/Occupancy, Lighting, and Appliance/Equipment
- Cooling and Heating Load Factors
- Design Conditions and Energy Conservation
- HVAC System Selection Criteria
- Air Distribution Systems
- Piping Systems, Including Plastic Piping
- Central Plant Equipment (Air-Handling Units, Chillers, Boilers, Cooling Towers, Heat Exchangers)
- Sustainability Guidelines
- New Technologies for HVAC
- Noise and Vibration Control
- Architectural, Structural, and Electrical Considerations
- Properties of Air and Water
- Auxiliary Equipment (Fans, Pumps, Motors, Controllers, Variable-Frequency Drives, Filters, Insulation, Fire-Stopping)
- Automatic Temperature Controls/Building Automation Systems
- Building Construction Business Fundamentals
- Architectural, Structural, and Electrical Information
- Conversion Factors
- Designer’s Checklist
- Professional Societies and Trade Organizations
- References and Design Manuals
- Cleanroom Criteria and Standards

## Book Information

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## Customer Reviews

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.

I am really disappointed in this purchase. The print is smaller than the previous edition. The cover is some flimsy cheap paper, the previous edition had laminated stronger gauge paper, The new information is not anything remarkable. I promised the junior engineer in our company that I would give him my previous edition so he may grow in knowledge. I am returning it and getting my hands on the previous version so it can last. This newer version is bound in the same manner as those romance novels sold in the supermarket. I was excited when Bell and Angel collaborated to create this edition because I loved their other books on HVAC. That is why I am really disappointed in this purchase.

This is a pretty handy reference book for field work. It has a little more than 20 pages of equations, and the rest is generally data, and ballpark "rules of thumb." If you own ASHRAE books, it covers most of everything that's in here. If you don't, it's a less expensive alternative for those books, which seems to be the idea behind it. I think it's a little overpriced, but it's definitely useful. I'm glad I purchased it. Very useful if you're in the HVAC world as either an installer, or even a field tech. If you're a mechanical engineer, you probably already have this material in other books.

Handy reference to have on the shelf. I would recommend it to HVAC Engineers and designers.

Great book. Could contain more equations and rules of thumb though.

no bends etc perfect condition

Book is really helpful but I cant find equipment schedules in book, does any one know?

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