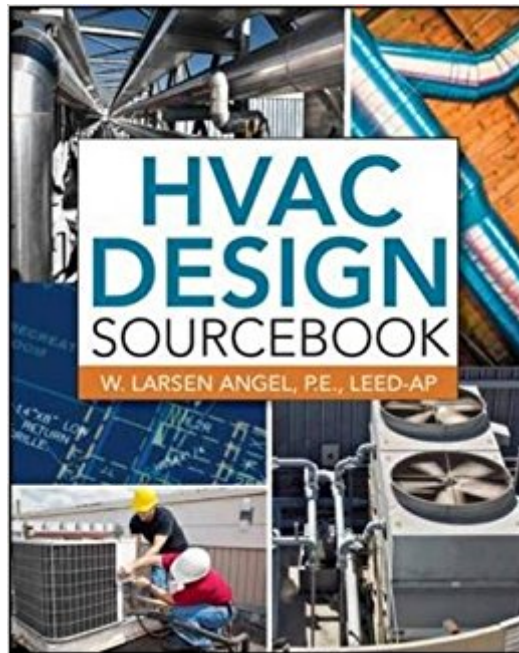




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# HVAC Design Sourcebook (Mechanical Engineering)



## Synopsis

**THE DEFINITIVE GUIDE TO HVAC DESIGN** This practical manual describes the HVAC system design process step by step using photographs, drawings, and a discussion of pertinent design considerations for different types of HVAC components and systems. Photographs of HVAC components in their installed condition illustrate actual size and proper configuration. Graphical representations of the components as they should appear on construction drawings are also included. Learn how to design HVAC systems accurately and efficiently from this detailed resource.

**HVAC DESIGN SOURCEBOOK COVERS:** The design process HVAC load calculations Codes and standards Coordination with other design disciplines Piping, valves, and specialties Central plant equipment and design Air system equipment and design Piping and ductwork distribution systems Terminal equipment Noise and vibration control Automatic temperature controls Construction drawings

## Book Information

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## Customer Reviews

W. Larsen Angel, P.E., LEED-AP, is a principal in the MEP consulting engineering firm of Green Building Energy Engineers. He has worked in the MEP consulting engineering industry for over 20 years. He has contributed to the development of design standards and continues to find new ways

to streamline the HVAC system design process. Larsen is a Member of the American Society of Heating, Refrigeration, and Air-Conditioning Engineers (ASHRAE) and is certified by ASHRAE as a Commissioning Process Management Professional (CPMP).

Good book

Excellent people who stand behind their products

So far from what I have read I would recommend this book to any entry level mechanical designer/engineer in the hvac industry. It is extremely useful with little bits of knowledge that may take longer for you to figure out by just learning on the job since most the work you will be doing out of school is project specific. This is a great guide to keep at your desk. The only down side to this book is the pictures are black and white. Would have been perfect if they were in color.

Great Book

Solid info that when used with loss and gain and ductulator results in a duct system that is very efficient and almost balanced!

The book is good for what it is. Unfortunately it was not what I was looking for and the description was not that useful to help me decide better before I bought it. It is too expensive to just keep.

As an architect, not an engineer, I found myself pleasantly surprised by this book. Yes, it is clear, concise, and easy to read, without the intimidating density of many technical texts. Yes, it provides a very helpful review and update of systems and equipment I'd studied in a vacuum in college (too) many years ago. Yes, it comprises an easy-to-use quick reference for answering specific questions I may have regarding a note or specification on a mechanical engineer's drawing. However, I found the greatest benefit of this book to be the way it helped me, as an architect, better understand how to work with a mechanical engineer efficiently and effectively. In the second chapter, the book provides an excellent breakdown of the phases of the design process, from schematics through construction drawings, spelling out what I could and should expect from the engineer at each step of the way. It lays out the hierarchy of decision-making throughout the process, and stresses the coordination of all the design disciplines, including pointing out many of the potential problem areas

that should be carefully checked along the way. This information is further amplified by a section in some of the chapters, "Coordination with Other Disciplines," which goes into greater detail regarding aspects of the HVAC design that should be closely reviewed by other professionals on the design team. I found this approach to the HVAC design process to be refreshingly practical and very current in this day of increased emphasis on wholistic, integrated building design.

IF you are relatively new to the HVAC design profession, GET THIS BOOK. One year into HVAC engineering, I discovered this book and read it cover to cover. Everything I learned in a year was summed up in this book and more. It does not contain formulas, but there are other books for that resource such as the ASHRAE Handbooks. This book has the practical understanding with schematic illustrations. If you are thinking about purchasing this book, THINK NO LONGER! Get it. It is worth it.

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