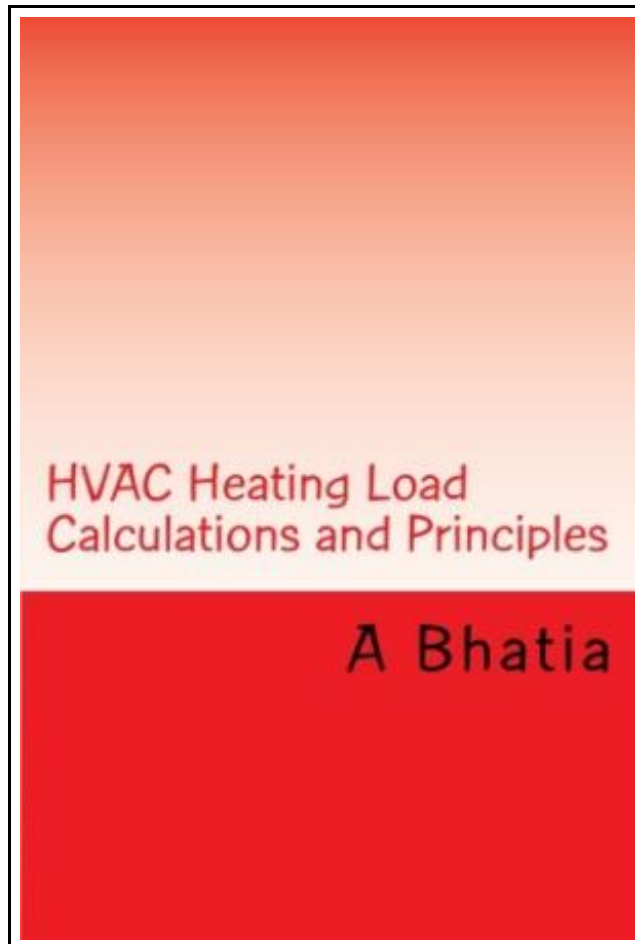


HVAC Heating Load Calculations and Principles: Quick Book



Filesize: 8.88 MB

Reviews

Here is the best publication i have got go through until now. It is actually writter in simple phrases and never hard to understand. I realized this publication from my dad and i suggested this ebook to find out.

(Lorena White)

HVAC HEATING LOAD CALCULATIONS AND PRINCIPLES: QUICK BOOK



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CreateSpace Independent Publishing Platform. Paperback. Condition: New. This item is printed on demand. 68 pages. Dimensions: 9.0in. x 6.0in. x 0.2in. The prime requirement in respect of the indoor climate in a building is that room temperature should be at a comfortable level, regardless of the weather conditions outside. As soon as the ambient temperature is lower than the indoor temperature, heat flows out from the building through its boundary surfaces (the building envelope). At the same time, the building also loses heat through air infiltration, i. e. the inward leakage of outdoor air into the building through gaps and cavities in walls, roofs, doors and windows. Bearing in mind the fact that the indoor temperature in most buildings is maintained at a little over 65F, this means, throughout most of the year, the building is losing heat to its surroundings. This 5-hour course, discusses the stepwise procedure to determine the rate of heat loss through building elements using a process called heat loss calculation. You will learn how to extrapolate your calculation of a maximum hourly rate into an annual energy usage rate. You will also learn some useful tips on saving heating energy. The course includes one sample example for better understanding of the concept. Learning Objective At the end of this course, the reader will: 1. Describe the factors affecting comfort in winter 2. Describe the overall heat transfer coefficient (U-value) and its relationship to resistance (R-value) 3. Understand the basic equation of heat loss through building elements such as walls, roof and glass 4. Understand the basic equation of heat loss through floor slab and basement 5. Understand the basic equation of heat loss through ventilation and infiltration 6. Understand the concept of degree days and how it is used to estimate the annual heat loss 7....



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