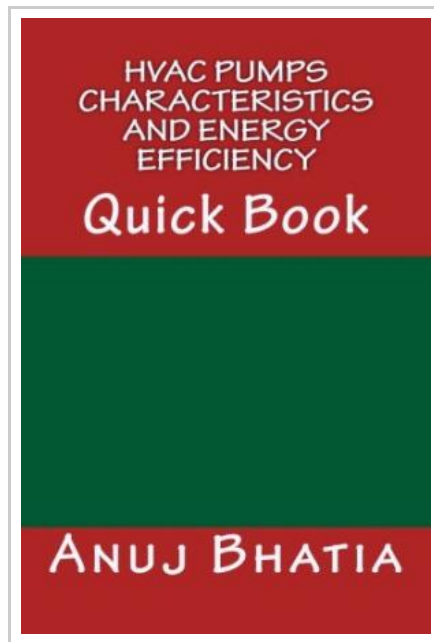




HVAC Pumps Characteristics and Energy Efficiency: Quick Book (Paperback)

By Anuj Bhatia

Createspace Independent Publishing Platform, United States, 2015. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Most HVAC systems are designed to handle the maximum potential temperature extremes, keeping the building cool on the hottest days and warm on the coldest days. As a result, the HVAC system only needs to work at full capacity on the ten or so hottest and coldest days of the year. On the other 345 days, the system could be operated at reduced capacity. HVAC pumps are generally designed for peak conditions and the output of these systems is controlled by mechanically constricting the flow with throttling valves. This wastes energy. By using a variable speed drives, chilled water flows can be matched to actual heating and cooling demands. This 5-hour Quick Book course provides the students with a firm understanding of the basic principles that centrifugal pumps operate under. Topics covered include the performance curve, series operation, parallel operation, the affinity laws, friction, specific gravity viscosity, suction lift, and NPSH. Learning Objective At the conclusion of this course, the student will: 1. Understand the basic types of pumps used in HVAC applications. 2. Understand the key fluid properties such as...



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