



## HVAC for Data Centers: E-Book (Paperback)

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By A Bhatia

Createspace Independent Publishing Platform, United States, 2014. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The basic physics of a data center is that electricity is converted to heat. Equipment in the data center expends power, generating heat, requiring air conditioning and ventilation equipment to keep them cool and running well. If the temperature rises too high, equipment will begin to malfunction or become damaged; as the internal components begin to swell and pull away from each other (or simply burn-up). The cooling system is also required to adjust the humidity of the air and to remove particles. Depending upon the climate at a data center's location, moisture may need to be added or removed. Similarly, the types and amount of particles to be removed from the air are determined by the location and external events. Data center cooling is a highly specialized area that uses precision cooling equipment that differs from the conventional comfort equipment. The combination of heat and the high sensitivity of electronic components in data center environments demand maximum availability and performance of the cooling equipment. Precision cooling systems have been designed specifically for this purpose. This 5-hr course presents...



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