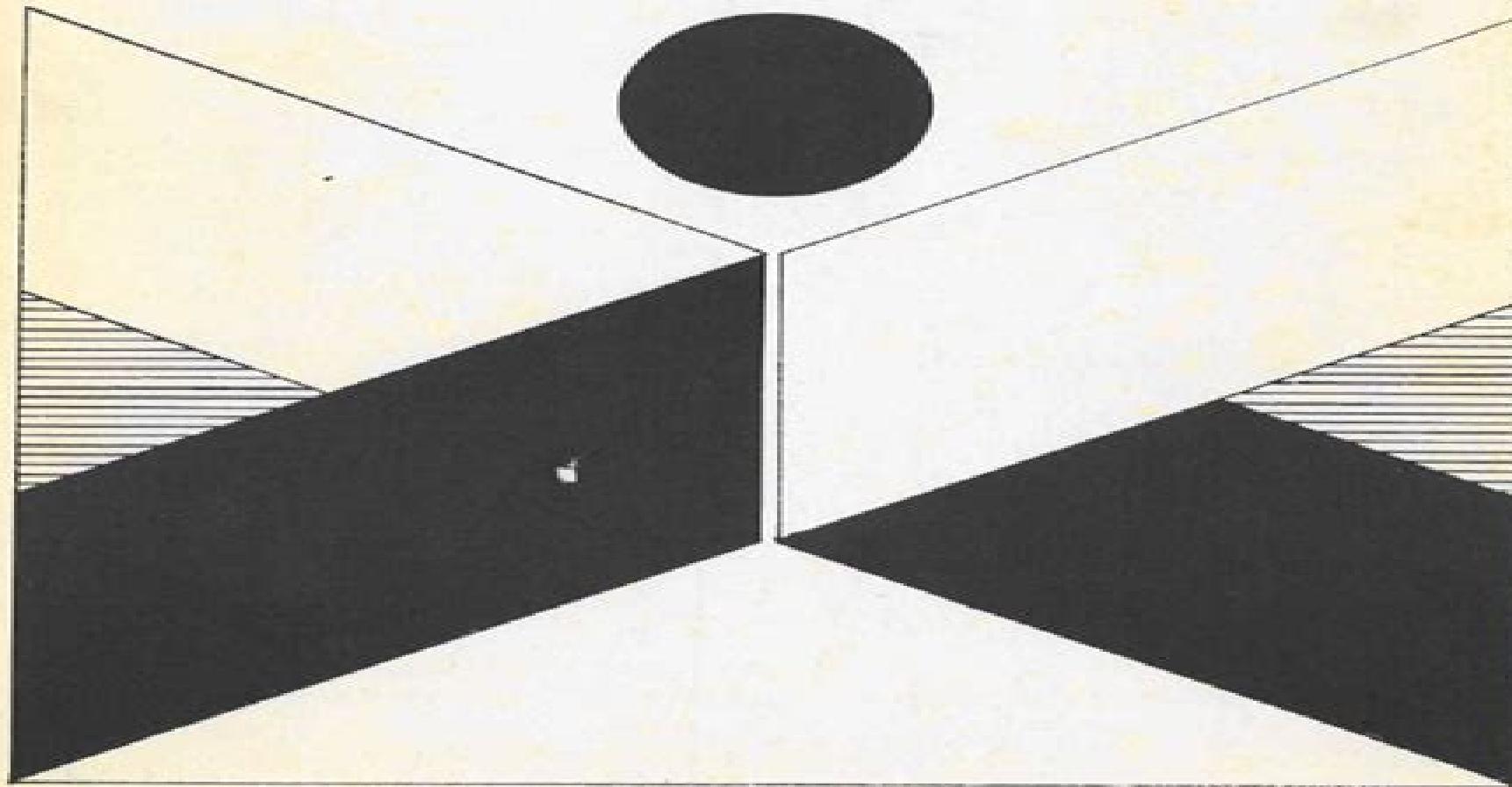




Cooling and Heating Load Calculation Manual



Ashrae Load Calculation Manual

Shan K. Wang

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ventilating, air conditioning & dehumidifying systems ,1987 *Guide to HVAC Systems* ,1980 *Handbook of Air Conditioning and Refrigeration* Shan K. Wang,2000-11-07 A broad range of disciplines energy conservation and air quality issues construction and design and the manufacture of temperature sensitive products and materials is covered in this comprehensive handbook Provide essential up to date HVAC data codes standards and guidelines all conveniently located in one volume A definitive reference source on the design selection and operation of A C and refrigeration systems *HVAC Principles and Applications Manual* Thomas E. Mull,1998 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product The perfect on the job guide for beginning engineers HVAC Principles and Applications Manual offers professionals a clear introduction to HVAC that bypasses hard to understand theory and complex mathematics Based on methods approved by the American Society of Heating Refrigerating and Air Conditioning Engineers the book provides expert coverage of HVAC fundamentals as well as step by step design and application methods Filled with examples the manual is meant to simplify such tasks as calculating the heat loss rate of a building and choosing the right system controls This practical and concise manual is a must for HVAC designers and engineers engineers without HVAC experience technicians contractors and other engineering professionals *HVAC Cooling Load - Calculations and Principles* A. Bhatia,2014-10-16 Heating and cooling load calculations are carried out to estimate the required capacity of heating and cooling systems which can maintain the required conditions in the conditioned space To estimate the required cooling or heating capacities one has to have information regarding the design indoor and outdoor conditions specifications of the building specifications of the conditioned space such as the occupancy activity level various appliances and equipment used etc and any special requirements of the particular application For comfort applications the required indoor conditions are fixed by the criterion of thermal comfort while for industrial or commercial applications the required indoor conditions are fixed by the particular processes being performed or the products being stored Generally heating and cooling load calculations involve a systematic and stepwise procedure which account for all the building energy flows In practice a variety of methods ranging from simple rules of thumb to complex transfer function methods are used to arrive at the building loads This short quick book provides a procedure for preparing a manual calculation for cooling load using CLTD CLF method suggested by ASHRAE and includes two detailed examples For more advanced methods such as TFM the reader should refer to ASHRAE and other handbooks Learning ObjectiveAt the end of this course the student should be able to 1 Understand the basic terminology and definitions related to air conditioning load calculations 2 Explain the differences between heating and cooling load design considerations3 Explain the difference between 1 space heat gain v s cooling load 2 space cooling v s cooling load and 3 external loads v s internal loads4 Differentiate between sensible and latent loads5 List commonly used methods for estimating cooling loads 6 Estimate the internal and external cooling loads using CLTD CLF method from building

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