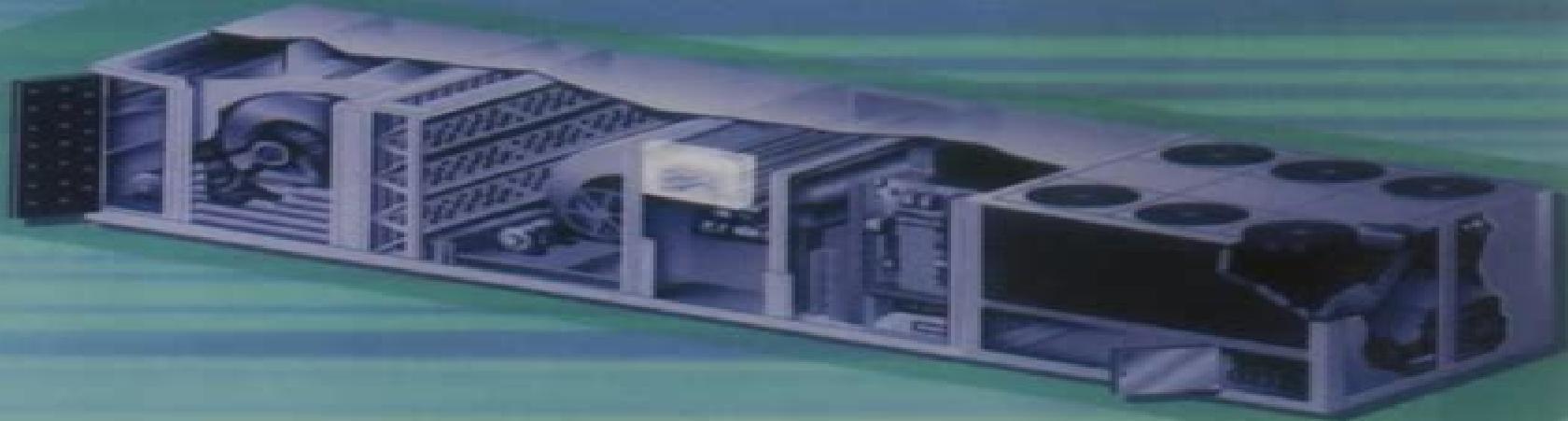


Air Conditioning Principles and Systems

AN ENERGY APPROACH

Fourth
Edition



Edward G. Pita



Air Conditioning Principles Systems Approach

**Pushpdant Jain,Kumar
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Resources in Vocational Education ,1977 *Heating, Cooling, Lighting* Norbert Lechner,1991-01-16 Using a qualitative rather than a quantitative approach presents detailed information based on concepts rules guidelines intuition and experience for architects in the areas of heating cooling and lighting at the schematic design stage The data explored

supports a three tiered approach load avoidance using natural energy sources and mechanical equipment Among the topics covered are shading thermal envelope passive heating and cooling electric lighting and HVAC Case studies illustrate how certain buildings use techniques at all three tiers for heating cooling and lighting An appendix lists some of the more appropriate computer programs available to the architect for analysis at the schematic design stage *Building Systems Design* ,1929 *Air Conditioning Principles and Systems* Edward G. Pita,2002 Using a minimum of mathematics this book explores the fundamental concepts of air conditioning and their application to systems explaining all concepts in a clear practical manner and focusing on problems and examples typically encountered on the job This book contains the most recent and industry wide accepted information on load calculations design data equipment information and use of the Internet Specific chapter topics cover the scope and uses of air conditioning physical principles heating loads furnaces and boilers hydronic piping systems and terminal units cooling load calculations psychrometrics fluid flow in piping and ducts piping valves ducts and insulation fans and air distribution devices centrifugal pumps expansion tanks and venting air conditioning systems and equipment refrigeration systems and equipment automatic controls energy utilization and conservation instrumentation testing and balancing and planning and designing the HVAC system and solar heating and cooling systems For consulting engineers mechanical contractors HVAC engineers designers project managers and facilities managers *VocEd* ,1981

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