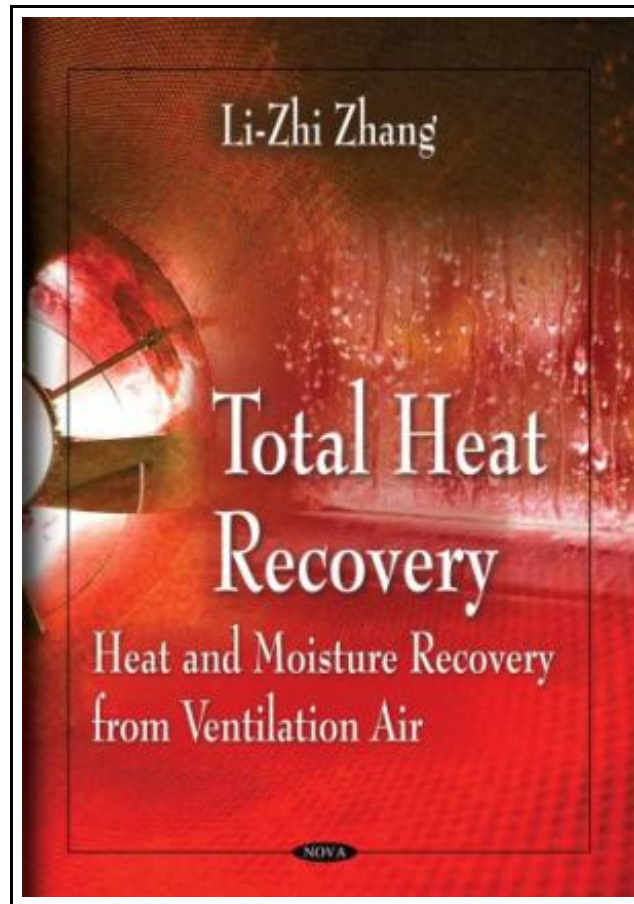


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TOTAL HEAT RECOVERY: HEAT AND MOISTURE RECOVERY FROM VENTILATION AIR



Nova Science Publishers Inc. Paperback. Book Condition: new. BRAND NEW, Total Heat Recovery: Heat and Moisture Recovery from Ventilation Air, Eugene B. Zelik, Energy has been described as "that which makes things go". Air conditioning accounts for 1/3 of the total energy use in society. Further, ventilation air accounts for 20-40 per cent of the cooling load for HVAC (Heating, ventilating, and Air conditioning) industry. The ratio can be even higher in hot and humid regions where latent load from fresh air is as heavy as 50 per cent of the cooling load. In this book, the systems and performances used for total heat recovery are introduced. They can be classified into two categories: energy wheels and stationary total heat exchangers. Energy wheels and membrane based total heat exchangers are specially described. Heat and mass transfer modelling of the system are performed. Influences of key material and design parameters on the system performance are discussed. Novel membranes including hydrophobic-hydrophilic composite membrane and composite supported liquid membrane are developed for total heat exchangers and are characterised. Sorption and diffusion of moisture in hygroscopic materials are the key parameters influencing latent heat recovery capability. Their appraisal methods are provided and implemented. Besides materials side intensification, air side intensification measures are taken as well. Plate-fin and cross corrugated triangular ducts are two important structures that are introduced. Plate-fin is compact and mechanically strong. Cross-corrugated triangular ducts are a new type of primary surface heat mass exchanger. The basic transport data in these structures are provided. Convective heat and mass transfer coefficients in plate-fin ducts of finite fin conductance with various cross sections are numerical obtained. Fluid flow and heat transfer in cross-corrugated triangular ducts are estimated by considering laminar, transitional, and turbulent complex flow regimes. Based on the fundamental heat mass transfer data,...



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