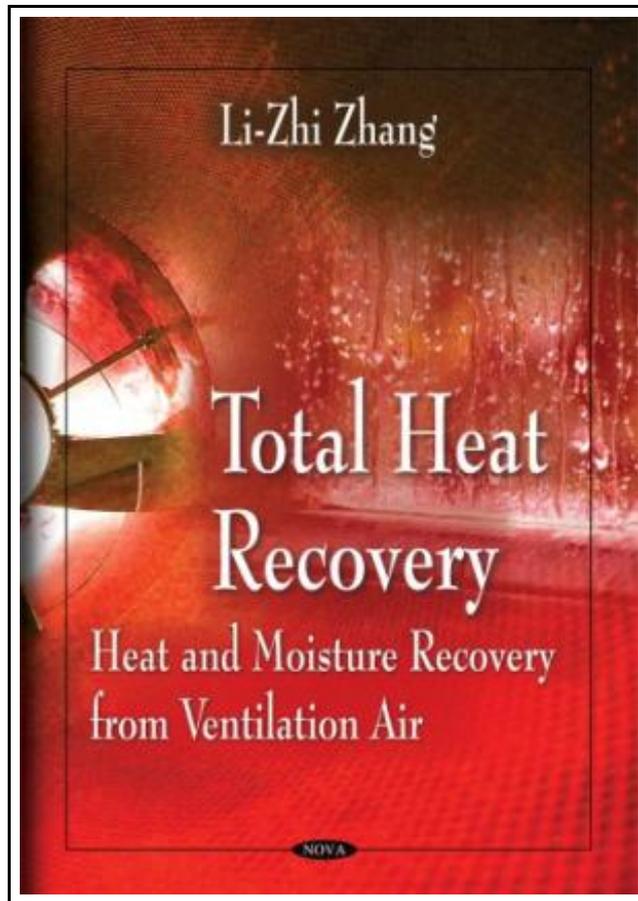


Total Heat Recovery: Heat and Moisture Recovery from Ventilation Air



Filesize: 2.75 MB

Reviews

It is great and fantastic. Sure, it is actually perform, nevertheless an amazing and interesting literature. Once you begin to read the book, it is extremely difficult to leave it before concluding.
(Ivy Hilll DDS)

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,...



[Read Total Heat Recovery: Heat and Moisture Recovery from Ventilation Air Online](#)



[Download PDF Total Heat Recovery: Heat and Moisture Recovery from Ventilation](#)

[Air](#)

Relevant PDFs



The Stories Julian Tells A Stepping Stone Book™

Random House Books for Young Readers. Paperback. Book Condition: New. Ann Strugnell (illustrator). Paperback. 80 pages. Dimensions: 7.6in. x 5.0in. x 0.4in. Julian is a quick fibber and a wishful thinker. And he is great at...

[Download ePub »](#)



Coronation Mass, K. 317 Vocal Score Latin Edition

Petrucci Library Press. Paperback. Book Condition: New. Paperback. 56 pages. Dimensions: 9.6in. x 6.7in. x 0.1in. Otto Taubmanns classic vocal score of Mozarts Coronation Mass was first issued in the early 20th century and has become...

[Download ePub »](#)



Mass Media Law: The Printing Press to the Internet (Paperback)

Peter Lang Publishing Inc, United States, 2013. Paperback. Book Condition: New. New.. 251 x 175 mm. Language: English . Brand New Book. Digital media law is now the dynamic legal territory. Mass Media Law: The...

[Download ePub »](#)



The Secret of Skullcracker Swamp Pretty Darn Scary Mysteries

Gallopede International. Paperback. Book Condition: New. Paperback. 113 pages. Dimensions: 7.2in. x 5.2in. x 0.3in. When you purchase the Library Bound mystery you will receive FREE online eBook access! Carole Marsh Mystery Online eBooks are an...

[Download ePub »](#)



On the seventh grade language - Jiangsu version supporting materials - Tsinghua University Beijing University students efficient learning

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Pages Number: 116 Publisher: Beijing Education Press Pub. Date :2009-6-1. Colorful three-dimensional law degree...

[Download ePub »](#)