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LOW-ENERGY PASSIVE SOLAR RESIDENCE IN AUSTIN, TEXAS



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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Finding out the possibility to reduce discomfort hours in house using solar chimney, natural ventilation and dual façade in hot-humid climate | Abruptly 40% of the world has hot-humid climate. In hot-humid climate, the wide span of temperature and humidity cause architectural designers a huge trouble to design a non-air conditioned built environment, if they have to design to provide optimum thermal comfort throughout the year. Therefore, from the ages, in every civilization , it has been an eternal challenge for designers, to design a thermally comfortable built environment for the climatic condition. In 1980s with the invention of mechanical ventilation the world changed; it erased the history- old architectural research to search the optimum comfort by only design. Two major issues temperature and humidity; to solve them I' chosen the wind and the sun. For wind power, I conceptualized a wind catcher; and to get the maximum use of the sun I designed a concave glass wall to absorb the highest amount of solar radiation. From a simple simulation of the design in Autodesk[®] Ecotect[®] showed more than fifty percent of reduction of discomfort degree hours. | Format: Paperback | Language/Sprache: english | 168 pp.

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