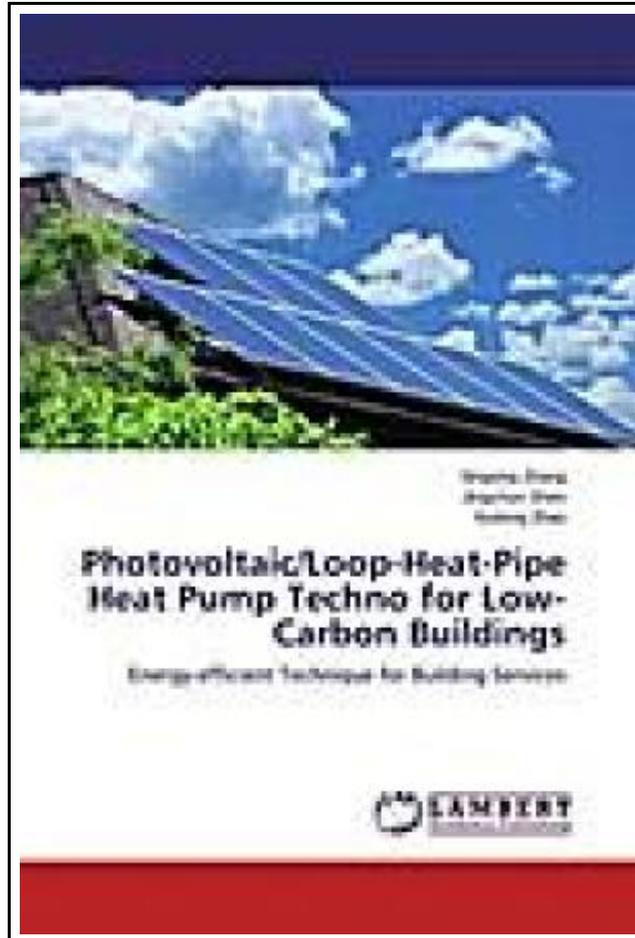


Photovoltaic/Loop-Heat-Pipe Heat Pump Techno for Low-Carbon Buildings



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Reviews

*Very helpful to any or all category of folks. It is written in simple phrases rather than difficult to understand. It has been developed in an exceptionally simple way and is particularly just after I finished reading this pdf in which it basically transformed me, modified the way in my opinion.
(Hank Runte)*

PHOTOVOLTAIC/LOOP-HEAT-PIPE HEAT PUMP TECHNO FOR LOW-CARBON BUILDINGS



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LAP Lambert Academic Publishing Okt 2014, 2014. Taschenbuch. Book Condition: Neu. 220x150x14 mm. This item is printed on demand - Print on Demand Neuware - With the widespread deployment of solar photovoltaic (PV) and thermal devices imminent, this research aims to resolve some engineering barriers to the existing solar photovoltaic/thermal (PV/T) technologies by incorporating an innovative loop heat pipe (LHP) and a typical heat pump. In addition, a coated aluminium-alloy (Al-alloy) sheet replaces the conventional baseboard for the PV cells to improve heat exportation. As a result, this research has developed a novel solar PV/LHP heat pump system to maximise the electrical output of a PV module and generate an additional amount of heat simultaneously. The overall investigation follows procedures for a critical literature review, optimal concept design, mathematical derivation, the development of simulation models, prototype fabrication, laboratory-controlled and field testing, simulation model validation and socio-economic analysis. The research results are expected to configure feasible solutions for future PV/T technologies and develop a new solar-driven heating system. The core technologies may enable a significant reduction in or even elimination of the carbon footprint in the built environment. 232 pp. Englisch.

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