Khartoum solar tile design

Why is solar shading important in Khartoum?
Solar shading of windows is an important design strategy in both contemporary and future designs. Active cooling is an essential design strategy to achieve optimal thermal comfort levels in all seasonsin the future 2070 climate of Khartoum,while it is essential only for the hot and wet seasons in 2015.

Which filtration system is best for Khartoum buildings?
Trombe walls,active living walls,and bio-façadefiltration systems are good for their numerous advantages and adaptable for Khartoum buildings. Wind towers and underground tunnel systems have high initial cost and their construction requires additional land therefore they are not an economical choice for Khartoum. 7.

Does Khartoum receive solar radiation?
Because of Khartoum's location at 16° north,it receives solar radiation from the north between May and July; a little effort is encouraged to shade northern windows with roof overhangs. East and west side façade windows can be shaded with vertical,moveable fins.

Are future design strategies for Khartoum sustainable and climate responsive?
With the climate data projections for 2070,future design strategies for Khartoum can be proposed to achieve sustainable and climate responsive building designs. The design strategies adapted in this research work for both the contemporary and future climate of Khartoum.

What is cadmium telluride solar technology? In the United States, scientists and manufacturers are working to expand production of cadmium telluride solar technology. Cadmium telluride (CdTe) is a ...

various strengths and opportunities for rooftop solar PV in Khartoum according to the literature. These are summarized on Table 1 based on the SWOT fra ework looking at the Strengths, Opportunities, ...

Building a PV system is the process of designing, selecting and calculating the ratings of the equipment employed in the system. This process depends on a range of factors such as geographical location, ...

nfluences of design the sustainable house was climate and solar radiation at the case study location. The climate of Khartoum in the summers is invariably hot (mean max. 41 C and ean min. 25 C) with ...

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The most efficient tilt for photovoltaic panels in Khartoum, Sudan

ABSTRACT This article examines the ideal tilt angle for photovoltaic (PV) modules to capture its most power. The tilt and slope angles of a photovoltaic solar panel (PV) array affect the amount of solar ...

The aims of this study are to reveal conditions affecting thermal comfort in Khartoum, Sudan, and suggest relevant building-design strategies to increase resilient to both current and ...

Grid-Tied PV System Design for a School in Khartoum, Sudan I recently completed the technical design of a 9.0 kWp grid-tied photovoltaic system for a school in Khartoum using PVsyst v6.43.

Khartoum is located at a latitude of 15.6°. Here is the most efficient tilt for photovoltaic panels in Khartoum: Your photovoltaic panels need to be angled facing south. If you"re mounting the ...

Building a photovoltaic system is the process of designing, selecting, and calculating the ratings of the equipments employed in the system. This process depends on a range of factors such as ...

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