

Who is Zhifeng Wang?

Zhifeng Wang, Professor of Institute of Electrical Engineering of Chinese Academy of Sciences (IEE-CAS).
Research Fields: Concentrating solar thermal power technology (CSP), Solar integrated building technology.
Zhifeng Wang is a professor of Institute of Electrical Engineering of Chinese Academy of Sciences (IEE-CAS).

What is design of solar thermal power plants?

Design of Solar Thermal Power Plants introduces the basic design methods of solar thermal power plants for technicians engaged in solar thermal power generation engineering. This b ... read full description Since the beginning of the 21st century, energy and environmental problems have become increasingly more conspicuous.

How to design a thermal automation system in a power plant?

The lighting system of the power plant shall use a power supply network with separate normal and emergency lighting. Thermal automation design shall include meteorological instruments, a solar radiometer set, a meteorological station, thermal inspection, a thermal alarm, thermal protection, thermal control, and a thermal automation laboratory.

Does strategic positioning of solar thermal power generation promote technological progress?

Strategic positioning of solar thermal power generation to promote technological progress. Huadian Technology. DOI:10. 3969/j. issn. 1674-1951. 2021.

Can phase change materials be used in solar thermal storage?

However, regular phase-change materials (PCMs) used in actual applications are accompanied by various problems, such as inorganic PCM supercooling and phase separation, low-thermal-conductivity organic PCM, and the like, that have severely restricted the application of phase-change technology in solar thermal storage.

What is solar thermal power generation?

Join ResearchGate to contact this researcher and connect with your scientific community. Solar thermal power generation integrates photothermal conversion power generation and low-cost, large-scale heat storage, which is the primary support for constructing a green power system with new energy as the main body.

Author links open overlay panel Chao Xu, Zhifeng Wang, Xin Li, Feihu Sun. Show more. Add to Mendeley. Share. Cite. ... Performance of a direct steam generation solar ...

Chao XU and Zhifeng Wang [6] point out that an energy analysis of a thermal power plant cannot be complete

unless the exergy concept is included. Their results show the ...

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DOI: 10.1016/J.RENENE.2011.08.043 Corpus ID: 109588407; Dynamic simulation of thermal energy storage system of Badaling 1 MW solar power tower plant ...

The integration of renewable and clean solar energy through photovoltaic (PV) technologies is increasing rapidly all over the world. Well-planned and maximum usage of sunlight elevates ...

Key Laboratory of Solar Thermal Energy, Photovoltaic System of Chinese Academy of Sciences (CAS), Institute of Electrical Engineering, CAS, Beijing, China Publication Topics

DOI: 10.1016/J.RENENE.2010.01.026 Corpus ID: 110534227; A new method for the design of the heliostat field layout for solar tower power plant @article{Wei2010ANM, title={A new method ...

A novel solar polygeneration system for heat, power and fresh water production with absorption heat pump (AHP) and humidification-dehumidification (HDH) desalination ...

The establishment of a reliable simulation system for a solar tower power plant can greatly increase the economic and safety performance of the whole system. In. ... 1 Key ...

In order to master the design, integration and operation technology of parabolic trough solar thermal power (PTSTP) plant and lay a solid foundation for the future development of large ...

Energy and exergy analysis of solar power tower plants Chao Xu*, Zhifeng Wang, Xin Li, Feihu Sun Key Laboratory of Solar Thermal Energy and Photovoltaic System, Institute of Electrical ...

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In order to solve the basic problem of the supercritical carbon dioxide (S-CO₂) Brayton cycle integrated with solar power tower (SPT) station which used solid particle solar ...

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Concentrated Solar Power Plant Modeling for Power System Studies. Lingxiang Yao Yang Wang Xianyong Xiao. ... Solar thermal power plants for electricity production include, at least, two ...

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