

Can SAP2000 be used to design a fixed photovoltaic support?

Taking an engineering project in Japan as an example, the SAP2000 software was used in this paper to carry out the analysis and research on the bearing capacity of the fixed photovoltaic support under various load conditions, so as to provide a reference method for the structural design of the fixed photovoltaic support.

What are the functions of SAP2000 software?

The software SAP2000 has strong functions, such as model (2D, 3D model, etc.), editing function (adding and deleting units, copying and deleting, etc.), analysis function (time history analysis, dynamic analysis), load function (node load, rod load, surface load and temperature load), custom features, and design function etc.

What are the requirements for photovoltaic support design?

According to the design requirements of power station, in the photovoltaic support design process, the array structure strength should meet the environmental requirements, such as the wind load 1.05 kN/m², the snow load 0.89 kN/m², and the basic parameters were shown in table 1.

What is the design angle of a fixed photovoltaic module?

The software SAP2000 has strong functions, design of the fixed photovoltaic support. Japan. The degree of the design angle of PV modules was 9°11'40". The single photovoltaic array unit was arranged into 4 rows and 5 columns. According to the basic parameters were shown in table 1.

Which finite element analysis software is used in a Japanese photovoltaic power?

For the actual demand in a Japanese photovoltaic power, SAP2000 finite element analysis software is used in this paper, based on Japanese Industrial Standard (JIS C 8955-2011), describing the system of fixed photovoltaic support structure design and calculation method and process.

What are the optimal parameters for photovoltaic support?

(4) By the simulation, and the photovoltaic support design requirements, the optimal parameters are for the rail 60×60×1.0, beam 60×60×1.0, column 40×50×2, bolt M10. Nantong Key Laboratory of 3D printing technology and Application (CP12016002). A. Girard, E. J. Gago, J. Ordoñez, et al, Renewable Energy, 86, 703 (2016).

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2 ???· ??? : ???, ???, ???, ???, ??? Abstract: In order to study the mechanical properties of the fixed photovoltaic bracket and its failure under wind load, the full ...

The cable-suspended PV system has gained increasing popularity due to its large span and good site

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