



# Photovoltaic support structure design and calculation





## Overview

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In this paper, the analysis of two different design approaches of solar panel support structures is presented. The analysis can be split in the following steps. From load determination to verification of steel, aluminum, and concrete parts, all steps are integrated into one consistent environment for code-compliant design. The current study throws light on researches conducted by various scholars in design optimization of solar panel support. When we connect N-number of solar cells in series then we get two terminals and the voltage across these two terminals is the sum of the voltages of the cells connected in series. Industrial Standard (JIS C 8955-2011), describing the. cted tracking photovoltaic support system. Using ANSYS software, a modal analysis and finite element model of the structure were developed and validated by comp ring measured data with mode teristics of photovoltaic su ection between the frame and its axis bar.



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### **Microsoft Word**

In this paper, the analysis of two different design approaches of solar panel support structures is presented. The analysis can be split in the following steps.





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