

## DESIGN AND MODELING THE $\Phi$ -F CHART METHOD FOR ACTIVE SOLAR ENERGY SYSTEMS

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**Keywords:** Scilab; Solar energy systems;  $\phi$ -f chart method

**Abstract:** The aim of this paper is to show how to implement the  $\phi$ -f chart method with Scilab. This model can be used to calculate the solar fraction for hot water production with respect to the global request. This Scilab code can be used to estimate the thermal performance of solar energy systems for domestic water, industrial process heating, and space heating systems where the thermodynamics cycle efficiency is independent of the heat supply temperature.

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# Solar Heating Design By The F Chart Method

**Roman Wölfel**



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