

MATLAB/Octave Modeling of PV Tracking System

Jonathan West

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Homework 1 Calculating the Sun's Position in the Sky

Your assignment is to write a function with the following definition:

```
1 function [azimuth, elevation] = solarPosition(t, long, lat)
2     % solarPosition Calculates the position of the sun in
3     % the sky based on the day and time and location on
4     % on the earth.
5     %
6     % t is a matlab DateNumber for time of day
7     % long, lat are the longitude and latitude of your position (deg)
8     %
9     % azimuth and elevation are the calculated solar position at your location
10
11     % your code goes here
12 end
```

Turn in your code listing, the input vectors you used for testing and the resulting plots for your test vectors.

Due Tuesday 1/28.