

2.627/2.626 Background Assessment Quiz

My background in solar energy (research, industry, business, hobbies) can be summarized as follows:

I can basically describe how a solar cell operates

- True
- False

I can explain what a semiconductor bandgap is to a layperson

- True
- False

I can sketch out a pn-junction on a band diagram

- True
- False

I can explain the difference between a nanostructured PV device, an thin film PV device, and a crystalline silicon wafer-based PV device

- True
- False

You are given a .csv file containing a set of numbers (e.g., one hundred rows and two columns), describing an x-y function. You are asked to perform a numerical integration of this data. What tool(s) can you use to perform the integration?

- MATLAB
- Excel
- Mathematica
- C++

- Other _____

As output from lab, you are given a .csv file containing a set of numbers describing an x-y function, e.g., one hundred rows and two columns. You would like to perform a numerical integration of this data. What tool(s) can you use to perform the integration?

- MATLAB
- Excel
- Mathematica
- C++
- Other _____

My home academic department is _____

Degree Program (e.g., B.S., S.M., Ph.D., MBA) _____

Number of years in program _____

I describe my core skill set to others as: physicist / chemist / materials scientist / mechanical engineer / civil engineer / political scientist / business person / other...

Aside from lecture, I am also interested in (check all that apply):

- Hands-on lab-based solar cell projects
- Field trips to solar installations, companies
- Guest lectures from PV experts in industry and academia
- Other _____

For a class project, I am most excited about (check all that apply)

- Working closely with a PV company, to help address a problem or identify an opportunity
- Preparing a technology prospectus on an emerging PV technology
- A self-designed project (pls elaborate below)

- Other: _____

List (up to) three of your desired learning objectives for this course

Anything else we should know? (Add your name here if you'd like us to get in touch with you — otherwise, this survey is anonymous.)

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