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The physics of solar cells. The photoelectric effect The physical basis for solar cells is the photoelectric effect(it was the explanation for this for which Einstein won the Nobel Prize). The photoelectric effect allows construction of the automatic door openers that work when you walk through a light beam.
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A solar cell is an electrical device that converts the solar energy into electric current. A large number of solar cells spread over a large area can work together to convert the light into electricity. The more light that hits a solar cell, the more electricity it generates. The most common solar cells are made from silicon semiconductor.
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Solar cell, also called photovoltaic cell, any device that directly converts the energy of light into electrical energy through the photovoltaic effect. The overwhelming majority of solar cells are fabricated from silicon —with increasing efficiency and lowering cost as the materials range from amorphous (noncrystalline) to polycrystalline to crystalline (single crystal) silicon forms.
The physics of solar cells - Pearson Education
to examine the physics of solar cells. More complete and rigorous treatments are available from a number of sources [2–6]. Solar cells can be fabricated from a number of semiconductor materials, most commonly silicon (Si) – crystalline, polycrystalline, and amorphous. Solar cells are also fabricated from other semiconductor materials such as GaAs, GaInP, Cu(InGa)Se
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In solar cells, charge carriers are extracted in the direction perpendicular to the substrate, therefore it would be more beneficial if one were able to evaluate the mobility in this direction also.
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It is definitely a book for ones who are interested in understanding solar cells. Jenny Nelson explains the physics in a way that the solar cells operations (pn junctions, etc) can be understood easily and clearly. Besides, the book also covers explanation and discussion for monocrystaline and thin film solar cells.

Indeed from a fundamental point of view, a solar cell can be considered as a semiconductor device (a diode) exposed to the sunlight. An introduction to the semiconductor physics is given, followed by the electron transport phenomena in a diode device.