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C Baldus-Jeursen, R S Tarighat, S Sivoththaman, Analysis of recombination mechanisms in heterojunction silicon solar cells with rapid thermally annealed thin film emitters, Journal of Physics D: Applied Physics, 10.1088/1361-6463/aa64c9, 50, 17, (175501), (2017).

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The Physics of the Solar Cell - Handbook of Photovoltaic ...

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,

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polycrystalline, and amorphous. Solar cells are also fabricated from other semiconductor materials such as GaAs, GaInP, Cu(InGa)Se

The Physics of the Solar Cell

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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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Education

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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.

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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

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silicon —with increasing efficiency and lowering cost as the materials range from amorphous (noncrystalline) to polycrystalline to crystalline (single crystal) silicon forms.

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