

# Solar cell parameter multiple choice questions

How many solar cell MCQs for engineering students?

This article lists 40 Solar Cell MCQs for engineering students. All the Solar Cell Questions & Answers given below include a hint and a link wherever possible to the relevant topic. This is helpful for users who are preparing for their exams, or interviews, or professionals who would like to brush up on the fundamentals of Solar Cell.

Where are the I-V characteristics of a solar cell drawn?

The I-V characteristics of a solar cell are drawn in the fourth quadrant. Explanation: The I-V characteristics of a solar cell is drawn in the fourth quadrant of the coordinate axis because a solar cell does not draw current but supplies the same to the load. 8. What should be the band gap of the semiconductors to be used as solar cell materials?

Why are the I-V characteristics of a solar cell drawn in the 4th quadrant?

7. The I-V characteristics of a solar cell are drawn in the fourth quadrant. Explanation: The I-V characteristics of a solar cell is drawn in the fourth quadrant of the coordinate axis because a solar cell does not draw current but supplies the same to the load. 8.

What is the principle of a solar cell?

3. The principle of a solar cell is same as the photodiode. Explanation: The solar cell works on the same principle as the photodiode, except that no external bias is applied and the junction area is kept much larger. 4.

What is a solar cell in engineering physics?

This set of Engineering Physics Multiple Choice Questions & Answers (MCQs) focuses on "Solar Cell". 1. A solar cell is a \_\_\_\_\_ Explanation: A p-n junction which generated EMF when solar radiation is incident on it is called a solar cell. The material used for fabrication of solar cell should have a band gap of around 1.5 eV. 2.

What are the applications of a solar cell?

The applications of a solar cell include satellites, water treatment, and water pumping. 1). A PV cell is also called? 2). PV effect in solar cell converts solar energy in to \_\_\_\_?

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5.1.2 Material Choice for Solar Cells. The operation of solar cells is based on the absorption of light and the



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photo-generation of carriers which flow in the external circuit. Therefore the absorption, photo-generation and the electronic transport are important underlying physical phenomena required to understand the operation and improve efficiency of solar ...

The document contains 36 multiple choice questions about photovoltaic cells (also called solar cells), testing knowledge about the components, layers, electrical characteristics, applications, advantages/disadvantages, and different types of solar cells. It covers topics like how solar cells convert sunlight into electricity using the ...

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The correct answer is Solar, electrical. Key Points. Solar energy is the energy from the sun that is captured by solar panels and converted into electrical energy.; The process of energy conversion in a solar panel involves photovoltaic cells that absorb sunlight and release electrons, which are then captured as electrical energy.; Electrical energy is the form of energy ...

The document contains 36 multiple choice questions about photovoltaic cells (also called solar cells), testing knowledge about the components, layers, electrical characteristics, applications, advantages/disadvantages, and ...

Explanation: There are three types of solar cells. Single crystal, polycrystal, and Single crystal, polycrystal, and amorphous silicon cells are the major types of solar cells.

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Below you can find MCQ"s or multiple choice questions related to solar cell and related topics for engineering students. Correct answers are in red and bold font. 1. a PV cell is also called? a) IR cell. b) VU cell. c) Solar ...

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The main performance parameters of solar panels include short-circuit current (ISC), open-circuit voltage (VOC), peak power (PM), current and voltage at maximum power (Imp and Vmp), efficiency, and fill factor (FF). These parameters help measure a solar panel's ability to convert sunlight into electricity effectively. Let's dive deeper into each of these parameters to ...

This set of Multiple Choice Questions & Answers (MCQs) focuses on "Photovoltaic Cell and Solar Cell Applications". Answer: b Explanation: The region where the electrons and holes diffused across the junction is called depletion region. It is also called as space charge region. 2. The current produce by the solar cell can be given by \_\_\_\_\_

Figure9.3: The equivalent circuit of (a) an ideal solar cell and (b) a solar cell with series resistance  $R_s$  and shunt resistance  $R_p$ . p-n junction. The first term in Eq. ( 8.33) describes the dark diode current density while the second term describes the photo-generated current density. In practice the FF is influenced

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Web: <https://nakhsolarandelectric.co.za>

