Course outline

How does an NPTEL online course work?

Module 1 - Overview of Electric Vehicles in India

Module 2 - Vehicle Dynamics

Module 2 and 3 - Vehicle Dynamics and EV Subsystems

Module 4 - Storage for EVs

Module 4 - Storage for EVs (contd)

Module 5 - Fundamentals of battery pack design

Module 5 and 6 - Battery Pack Design, Motors and Controllers

Module 6 - EV Motors and Controllers

Module 7&8 - Battery Charging and Swapping, Analytics

Module 9: Renewable Energy - Introduction

Module 10: Renewable Charging and Swapping, Analytics

Module 9: Renewable Energy

- Introduction

Module 10: Renewable Energy - Solar and Wind Energy

- Solar Photovoltaic
- Solar Cell and its Characteristics
- Solar Cells to Modules
- Wind Energy
- The War of Currents
- The birth of Solar DC
- Quiz: Week 11: Assignment 1
- Quiz: Week 11: Assignment
- Quiz: Week 11: Assignment 3
- Quiz: Week 11: Assignment 4
- Week 11: Feedback form: Electric Vehicles and Renewable Energy
- Week 11: Lecture notes
- Week 11: Solutions

Module 11: Renewable Energy

Live Session

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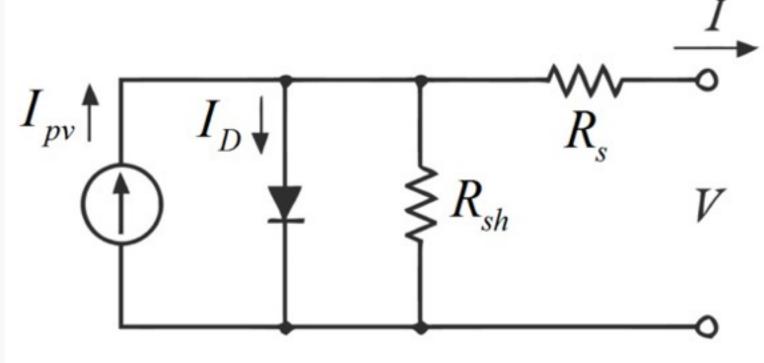
Week 11: Assignment 2

The due date for submitting this assignment has passed.

Due on 2021-10-13, 23:59 IST.

As per our records you have not submitted this assignment.

1) For the given model of PV cell, calculate the forward bias current ID (in A) when forward bias voltage of 0.5V is applied (consider this voltage to be across diode or Rsh), the reverse saturation current is 2.23×10⁻¹⁰A and the thermal voltage is 25.2mV. Let the ideality factor be 1.



Accepted Answers:

Mypotriangujuicijoriz---

Score: 0

False

3) The maximum possible power that can be drawn from a solar cell is lsc x Voc.

No, the answer is incorrect. Score: 0

Accepted Answers:

False

