



# Photovoltaics mit ocw

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Image by MIT OpenCourseWare. After H. Aulich, PV Crystalox Solar. MIT 2.626/2.627 - October 13 & 18, 2011 9 . Step 1: Metallurgical-Grade Silicon (MG-Si) Production. For MG-Si production visuals, please see the lecture 10 video. From: Handbook of PV Science and Technology, available online at

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This class will study the behavior of photovoltaic solar energy systems, focusing on the behavior of “stand-alone” systems. The design of stand-alone photovoltaic systems will be covered. This will include estimation of costs and benefits, taking into account any available government subsidies. Introduction to the hardware elements and their behavior will be included.

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courses, visit MIT OpenCourseWare at [ocw.mit.edu](http://ocw.mit.edu). PROFESSOR: So modules, systems, and reliability. What we're going to do is talk about how we go from the cells, or from the films, to full modules and, finally, to systems. So our first learning objective is to describe, more or less, the DNA or anatomy of a PV module.

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Joseph Sullivan is entering his fourth year in MIT's Photovoltaic Research Laboratory. He currently researches advanced photovoltaic concepts that have the potential to break the Shockley-Queisser efficiency limit. ... About MIT OpenCourseWare. MIT OpenCourseWare makes the materials used in the teaching of almost all of MIT's subjects available ...

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Fundamentals of photoelectric conversion: charge excitation, conduction, separation, and collection. Lectures cover commercial and emerging photovoltaic technologies and cross-cutting themes, including conversion efficiencies, loss mechanisms, characterization, manufacturing, systems, reliability, life-cycle analysis, risk analysis, and technology evolution in the context of ...

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Understand the science, engineering implementation, and market and social forces driving this key solar energy technology. This course is one of many OCW Energy Courses, and it is an elective subject in MIT's undergraduate Energy Studies Minor. This Institute-wide program complements the deep expertise obtained in any major with a broad understanding of the ...

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PROFESSOR: Ladies and gentlemen, thanks for coming today. I'd like to formally start the course, The Fundamentals of Photovoltaics.

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These short videos use tabletop demonstrations and animated graphics to explain several fundamental photovoltaic topics. Tutorial: Texturing. Tutorial: Doping. Tutorial: Photoconductivity. Tutorial: Solar Cell Operation. Course Info ... including license rights, that differ from ours. MIT OCW is not responsible for any content on third party ...

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