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Rectenna Solar Cells | Garret Moddel | Springer

Rectenna Solar Cells discusses antenna-coupled diode solar cells, an emerging technology that has the potential to provide ultra-high efficiency, low-cost solar energy conversion. This book will provide an overview of solar rectennas, and provide thorough descriptions of the two main components:

[Optical Rectenna Could Double Solar Cell Efficiency - IEEE ...](#)

Optical Rectenna Could Double Solar Cell Efficiency While conversion efficiencies are still low, a few tweaks could make the first optical rectenna ready for commercial use in photovoltaics.

[Forget solar panels, optical 'rectenna' converts light ...](#)

Forget solar panels, optical 'rectenna' converts light directly to electricity Anthony Watts / October 20, 2016 From Georgia Tech, a news release that we missed when it first came out, but still well worth talking about.

[Photovoltaic Technologies Beyond the Horizon: Optical ...](#)

As an alternative, ITN Energy Systems is developing next-generation solar cells based on the concepts of an optical rectenna (see Figure 1). ITN's optical rectenna consists of two key

[Optical Rectenna - High efficiency solar power generation ...](#)

Space-based solar power (SBSP) is the concept of collecting solar power in outer space and distributing it to Earth using a solar-power satellite or a solar-power system. It has been in research since the early 1970s.

[Third-Generation Solar Cells Using Optical Rectenna ...](#)

The first generation of solar cells, used in 90% of today's cells, have a focus of high efficiency. These cells use a single p-n junction to extract energy from photons and are manufactured from silicon semiconductors. This allows for about 30% efficiency, but resulted in a price too high to compete with fossil fuels (Payback time of about 5-7 years). The second generation of solar cells

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Rectenna Solar Cells discusses antenna-coupled diode solar cells, an emerging technology that has the potential to provide ultra-high efficiency, low-cost solar energy conversion. This book will provide an overview of solar rectennas, and provide thorough descriptions of the two main components: the diode, and the optical antenna. The editors discuss the science, design, modeling, and [Chapter 1 Will Rectenna Solar Cells Be Practical?](#)

The efficiency of rectenna solar cells is a function of collected photon flux for two reasons: (1) a high photocurrent is needed to offset the effects of diode reverse-bias leakage (discussed in more detail in [Optical rectenna - Wikipedia](#)

An optical rectenna is a rectenna (rectifying antenna) that works with visible or infrared light. A rectenna is a circuit containing an antenna and a diode, which turns electromagnetic waves into direct current electricity.

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Rectenna Solar Cells discusses antenna-coupled diode solar cells, an emerging technology that has the potential to provide ultra-high efficiency, low-cost solar energy conversion. This book will provide an overview of solar rectennas, and provide thorough descriptions of the two main components: the diode, and the optical antenna. The editors discuss the science, design, modeling, and