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Photon Management in Solar Cells

By Wehrspohn, Ralf B. / Rau, Uwe

Condition: New. Publisher/Verlag: Wiley-VCH | Written by renowned experts in the field of photon management in solar cells, this one-stop reference gives an introduction to the physics of light management in solar cells, and discusses the different concepts and methods of applying photon management. The authors cover the physics, principles, concepts, technologies, and methods used, explaining how to increase the efficiency of solar cells by splitting or modifying the solar spectrum before they absorb the sunlight. In so doing, they present novel concepts and materials allowing for the cheaper, more flexible manufacture of solar cells and systems. For educational purposes, the authors have split the reasons for photon management into spatial and spectral light management. Bridging the gap between the photonics and the photovoltaics communities, this is an invaluable reference for materials scientists, physicists in industry, experimental physicists, lecturers in physics, Ph.D. students in physics and material sciences, engineers in power technology, applied and surface physicists. | Preface CURRENT CONCEPTS FOR OPTICAL PATH ENHANCEMENT IN SOLAR CELLS Introduction Planar Antireflection Coatings Optical Path Enhancement in the Ray Optical Limit Scattering Structures for Optical Path Enhancement Resonant Structures for Optical Path Enhancement Ultra-Light Trapping Energy-Selective Structures as Intermediate Reflectors for Optical Path Enhancement in Tandem Solar Cells Comparison of the Concepts Conclusions THE PRINCIPLE OF...



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-- Prof. Colton Jakubowski IV

Completely among the finest publication I have got possibly read through. It really is rally exciting through reading through period. You are going to like how the writer compose this publication.

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