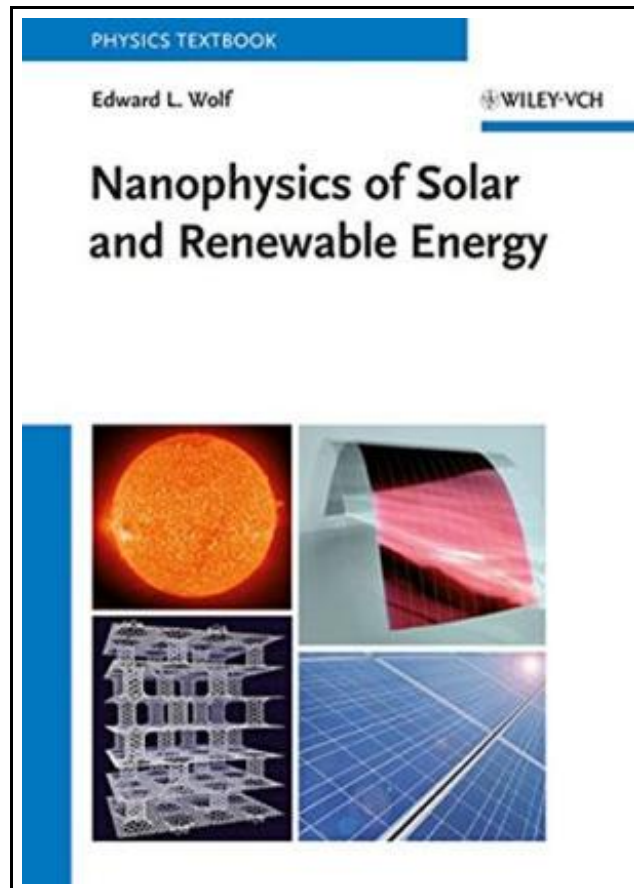


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Reviews

This publication is definitely not simple to begin on studying but quite fun to see. It really is full of knowledge and wisdom I am just effortlessly can get a satisfaction of studying a created pdf.
(Alfreda Bradtke)

NANOPHYSICS OF SOLAR AND RENEWABLE ENERGY



Wiley VCH Verlag GmbH Sep 2012, 2012. Taschenbuch. Book Condition: Neu. 251x170x1 mm. Neuware - Dieses leicht zugängliche Lehrbuch bietet einen Überblick über die Umwandlung von Solarenergie in elektrische Energie. Der Verfasser stellt grüne Technologien vor wie Solarthermie und Brennstoffzellen und geht auch das Thema Kernfusion an. Der Schwerpunkt liegt aber eindeutig auf der Stromerzeugung durch Photovoltaik und den zugrundeliegenden Prinzipien und Herstellungsmethoden. Immer wieder finden sich sorgsam ausgewählte, aktuelle Beispiele, die wichtige Konzepte und Forschungsansätze illustrieren. Als erfahrener Dozent gibt Edward Wolf eine Einführung in die Konzepte der Quanten- und Atomphysik sowie der Festkörperphysik. Diese Grundlagen sind wichtig für ein quantitatives Verständnis des Status Quo in diesem Fachgebiet. Das Buch ist in sich geschlossen und gut geeignet für Studenten der Physik, Chemie und Ingenieurwissenschaften. Aufgrund der Diskussion der ökonomischen Aspekte wird das Buch auch Leser ansprechen, die eine Karriere im Bereich der Alternativen Energien anstreben. This easy accessible textbook provides an overview of solar to electric energy conversion, followed by a detailed look at one aspect, namely photovoltaics, including the underlying principles and fabrication methods. Professor Wolf, an experienced author and teacher, reviews such green technologies as solar-heated-steam power, hydrogen, and 'artificial leaf' approaches, as well as nuclear fusion. Throughout the book, carefully chosen, up-to-date examples are used to illustrate important concepts and research tools. The opening chapters give a broad and exhaustive survey of long term energy resources, reviewing current and potential types of solar driven energy sources. The core part of the text on solar energy conversion discusses different concepts for generating electric power, followed by a profound presentation of the underlying semiconductor physics and rounded off by a look at efficiency and third-generation concepts. The concluding section offers a rough analysis of the economics relevant to the large-scale adoption of photovoltaic conversion with a discussion of...



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