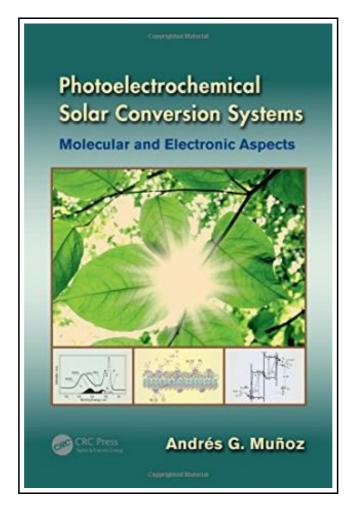
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PHOTOELECTROCHEMICAL SOLAR CONVERSION SYSTEMS: MOLECULAR AND ELECTRONIC ASPECTS (HARDBACK)



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Taylor Francis Inc, United States, 2012. Hardback. Book Condition: New. New.. 231 x 160 mm. Language: English . Brand New Book. Providing new insights into the molecular and electronic processes involved in the conversion of sunlight into chemical products, Photoelectrochemical Solar Conversion Systems: Molecular and Electronic Aspects begins with an historical overview and a survey of recent developments in the electrochemistry of semiconductors and spectroscopic techniques. It then provides a comprehensive introduction to the science of conversion cells, reviews current issues and potential directions, and covers a wide range of materials from organic to inorganic cells. Employing a tutorial organization with balanced coverage of electrochemistry and solar energy conversion, this book covers: * The conversion of sunlight into chemical energy and different actual conversion concepts * Electrochemical methods for the construction and characterization of electrolyte-metal-oxide-semiconductor contacts (EMOS) in the nanodimensions, the socalled nano-emitter concept, including the electrochemical formation of metal clusters of catalytic metals and the formation of passivating layers by anodization * The fundamentals of electrocatalysis with emphasis on the hydrogen evolution reaction and the electrochemical CO2 reduction * Classical and quantum mechanical theories of electron transfer reactions in metal-electrolyte interfaces and their relation with surface electronics * The physicochemical characterization of the model system Si-SiOx-metal-electrolyte by means of modern electrochemical, surface, and spectroscopic methods * Improvements of conversion efficiency by means of optical effects, for example, the generation of surface plasmons by nano-dimensioned arrangements of optically active metals.

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