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A modern challenge is for solar cell materials to enable the highest solar energy conversion efficiencies, at costs as low as possible, and at an energy balance as sustainable as necessary in the future. This textbook explains the principles, concepts and materials used in

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Markwart solar cells. It combines basic knowledge about solar cells and the demanded criteria for the materials with a comprehensive introduction into each of the four classes of materials for solar cells, i.e. solar cells based on crystalline silicon, epitaxial layer systems of III-V semiconductors, thin-film absorbers on foreign substrates, and nano-composite absorbers. In this sense, it bridges a gap between basic literature on the physics of solar cells and books specialized on certain types of solar cells. The last five years had several breakthroughs in photovoltaics and in the research on solar cells and solar cell materials. We consider them in this second edition. For example, the high potential of crystalline

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Silicon with charge-selective hetero-junctions and alkaline treatments of thin-film absorbers, based on chalcopyrite, enabled new records. Research activities were boosted by the class of hybrid organic-inorganic metal halide perovskites, a promising newcomer in the field. This is essential reading for students interested in solar cells and materials for solar cells. It encourages students to solve tasks at the end of each chapter. It has been well applied for postgraduate students with background in materials science, engineering, chemistry or physics.

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background in materials science, engineering, chemistry or physics.

A large number of solar cell and solar cell systems are described in this volume. The theory of their operation, their design and the levels of their performance is discussed. Originally the book appeared in 1978 but extensive change over the intervening years in the fields of energy generation and consumption, solar energy and solar cells, has necessitated the publication of an updated version. The text initially surveys the requirements of humanity, the subsequent need for solar cells, the nature of sunlight and the properties of semiconductors. Concrete examples, extensive references and theoretical

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Arguments are then used to present a comparison of options available in the design and operation of solar cells and solar cell systems. The cells - constructed from single, crystal, polycrystalline and amorphous semiconductors - and the systems - have varying designs and differing levels of solar energy for input and produce electricity or electrical and thermal energies. Solar cell production, economics and environmental effects are considered throughout the publication.

Enormous leaps forward in the efficiency and the economy of solar cells are being made at a furious pace. New materials and manufacturing processes have

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Markwart opened up new realms of possibility for the application of solar cells. Crystalline silicon cells are increasingly making way for thin film cells, which are spawning experimentation with third-generation high-efficiency multijunction cells, carbon-nanotube based cells, UV light for voltage enhancement, and the use of the infrared spectrum for night-time operation, to name only a few recent advances. This thoroughly updated new edition of Markwart and Castaner's Solar Cells, extracted from their industry standard Practical Handbook of Photovoltaics, is the definitive reference covering the science and operation, materials and manufacture of solar cells. It is essential reading for engineers,

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Markvert installers, designers, and policy-makers who need to understand the science behind the solar cells of today, and tomorrow, in order to take solar energy to the next level. A thorough update to the definitive reference to solar cells, created by a cast of international experts from industry and academia to ensure the highest quality information from multiple perspectives Covers the whole spectrum of solar cell information, from basic scientific background, to the latest advances in materials, to manufacturing issues, to testing and calibration. Case studies, practical examples and reports on the latest advances take the new edition of this amazing resource beyond a simple amalgamation of a vast

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amount of knowledge, into the
realm of real world applications

The book focuses on advanced characterization methods for thin-film solar cells that have proven their relevance both for academic and corporate photovoltaic research and development. After an introduction to thin-film photovoltaics, highly experienced experts report on device and materials characterization methods such as electroluminescence analysis, capacitance spectroscopy, and various microscopy methods. In the final part of the book simulation techniques are presented which are used for ab-initio calculations of relevant semiconductors and for device

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simulations in 1D, 2D and 3D. Building on a proven concept, this new edition also covers thermography, transient optoelectronic methods, and absorption and photocurrent spectroscopy.

Easy-to-understand, accurate, and comprehensive, this is the guide for anyone interested in installing a solar electric system. Power from the Sun provides a basic understanding of electricity, solar energy and the sun, and solar site assessment. It discusses the types of photovoltaics (PVs) and PV systems, advances in PVs, charge controllers, inverters, batteries, and generators, as well as the installation and maintenance of a PV system. This

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book is written for the layperson and is designed to raise the solar electricity literacy of readers. It provides a great overview of the many options available and is designed to help homeowners make wise decisions during the design, purchase, and installation of solar electric systems—and save a lot of money. Providing readers with the knowledge necessary to communicate effectively with PV installers, *Power From the Sun* is a great guide for homeowners, business owners, installers, architects, building department officials, utility company employees, and just about anyone else who wants to lower their energy bills or achieve greater energy independence. Dan Chiras is

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president of Sustainable Systems Design, Inc., a residential renewable energy and green building consulting firm, and is director of The Evergreen Institute's Center for Renewable Energy and Green Building, which offers workshops on residential renewable energy and green building. He is an internationally acclaimed speaker and author and has published twenty-five books, including The Homeowner's Guide to Renewable Energy and Power from the Wind.

This leading-edge volume on advances in photovoltaic technology features diverse contributions from experts in every major geographic PV

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Market It examines emerging applications such as electricity grid load-balancing and demand-response, PV storage systems, photovoltaic/thermal solar collectors and carbon-offset in buildings. Engineers, researchers, developers and students alike will find new avenues for exploration and fresh insights into this continually evolving field. Highlights the most recent advances in Photovoltaics, from Next-Gen Storage Systems to Bifacial PV/T Solar Collectors; Provides expert insights on the recent evolution and near future of PV markets around the globe; Covers applications from grid-tied storage and power generation to green buildings.

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The rather specialized field of solar and infrared radiation measurement has become more and more important in the face of growing demands by the renewable energy and climate change research communities for data that are more accurate and have increased temporal and spatial resolution. Updating decades of acquired knowledge in the field, *Solar and Infrared Radiation Measurements* details the strengths and weaknesses of instruments used to conduct such solar and infrared radiation measurements. Topics covered include: Radiometer design and performance Equipment calibration, installation, operation, and maintenance Data quality assessment Methods to use

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Markwart measured data to estimate irradiance for any surface. With a broad range of content that will benefit students and more experienced readers alike, this resource serves as a primer and technical reference that presents the basic terminology and fundamentals for resource assessment. It explores the history of solar radiation instruments and addresses direct normal, global, diffuse, and tilted measurements, as well as the characteristics of instruments used for these measurements. The authors consider methods of assessing the uncertainty of solar measurements and then cover albedo, infrared, net, and spectral irradiance measurements and instrumentation. The book

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devotes a section to other meteorological instruments, and another to the basics for installing and operating a solar monitoring station. Appendices include information on solar resource assessment modeling and satellite-derived irradiance, along with other useful material. This book's authors are experts who each have more than 30 years of experience developing and operating multiple measurement stations, working with industry to improve radiometry, and conducting various research projects.

Photovoltaics, the direct conversion of sunlight to electricity, is now the fastest growing technology for electricity

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generation. Present "first generation" products use the same silicon wafers as in microelectronics. "Second generation" thin-films, now entering the market, have the potential to greatly improve the economics by eliminating material costs. Martin Green, one of the world's foremost photovoltaic researchers, argues in this book that "second generation" photovoltaics will eventually reach its own material cost constraints, engendering a "third generation" of high performance thin-films. The book explores, self-consistently, the energy conversion potential of advanced approaches for improving photovoltaic performance and outlines

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possible implementation paths.

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