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Solar thermal energy is used for
water heating, space heating,
electric power generation, solar
cooker for cooking of food etc.

2.2.1 Flat plate solar collector

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Solar Energy: Fundamentals and
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aspects. Beginning with an
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Solar PV is now the third most important renewable energy source, after hydro and wind power, in terms of global installed

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Applications

SOLAR ENERGY: Fundamentals,
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provides a platform to the
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A Student Introduction to Solar

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The book delves into the main renewable energy topics such as solar, wind, geothermal, hydropower, biomass, tidal, and wave, as well as hydrogen and fuel cells. By stressing real-world relevancy and practical applications, Fundamentals and Applications of Renewable Energy helps prepare students for a successful career in renewable energy. The text contains detailed discussions on the thermodynamics, heat transfer, and fluid mechanics aspects of renewable energy systems in addition to ...

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fundamentals of solar energy, its applications and basic heat transfer. Design, construction, and performance of solar thermal devices and photovoltaic systems are discussed at length, along with the economic aspects of solar systems. The text is complemented by more than 300 figures, 180 solved examples, and numerous problems with hints to their solution. (Midwest).

Solar PV is now the third most important renewable energy source, after hydro and wind power, in terms of global installed capacity. Bringing together the expertise of international PV specialists Photovoltaic Solar Energy: From Fundamentals to Applications provides a

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Comprehensive and up-to-date account of existing PV technologies in conjunction with an assessment of technological developments. Key features:
Written by leading specialists active in concurrent developments in material sciences, solar cell research and application-driven R&D. Provides a basic knowledge base in light, photons and solar irradiance and basic functional principles of PV. Covers characterization techniques, economics and applications of PV such as silicon, thin-film and hybrid solar cells. Presents a compendium of PV technologies including: crystalline silicon technologies; chalcogenide thin film solar cells; thin-film silicon based PV technologies;

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Application of PV and III-Vs; PV

concentrator technologies; space technologies and economics, life-cycle and user aspects of PV technologies. Each chapter presents basic principles and formulas as well as major technological developments in a contemporary context with a look at future developments in this rapidly changing field of science and engineering. Ideal for industrial engineers and scientists beginning careers in PV as well as graduate students undertaking PV research and high-level undergraduate students.

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worked-out example problems and over 850 end-of-chapter review questions reinforce main concepts, formulations, design, and analysis. Coverage includes: Renewable energy basics Thermal sciences overview Fundamentals and applications of Solar energy Wind energy Hydropower Geothermal energy Biomass energy Ocean energy Hydrogen and fuel cells □ Economics of renewable energy □ Energy and the environment

Basic concepts. Solar thermal collectors. Subsystems. System integration. Symbols. Conversion factors. Sun angle geometry notes. Properties of materials, fluids, and gases. Description and use of SOLMET and TMY tapes.

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Application of program SIMPLSYS.
Basic parabolic geometry. Other
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insolation parameters for the
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algorithms. Storage sizing graphs.

This book presents the methods
of quantitative determination of
solar irradiation incident amount
on a surface on the Earth. It
brings together information not
found elsewhere in a single
source, and includes an
innovative exposition of expert
system methodologies used in the
domain of solar irradiation and
energy. The book provides a
background to the underlying
physical principles of solar
irradiation and energy, with
explanations as to how these can

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be modelled and applied.

Prakash

A compilation of decades of knowledge spanning the author's career as a mechanical engineer specializing in heat transfer and thermodynamics in the solar and aerospace industries, this book is instantly practicable. Topics include definitions of energy terms, relationship of the sun and earth, sunlight on the earth, heat transfer, solar collectors, absorbed solar energy, solar domestic hot water systems, solar photovoltaic systems, solar space heating, solar power towers, Stirling engine solar power systems, passive solar energy, and greenhouse solar collector. Appendices cover Carnot and Stirling Efficiency, mathematical

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techniques for solving heat transfer problems, and case studies. The book includes an Excel®-based companion CD of computations for the reader to readily put the information in the book to practical use.

Fundamentals of Solar Cells: Photovoltaic Solar Energy Conversion provides an introduction to the fundamental physical principles of solar cells. It aims to promote the expansion of solar photovoltaics from relatively small and specialized use to a large-scale contribution to energy supply. The book begins with a review of basic concepts such as the source of energy, the role of

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photovoltaic conversion, the development of photovoltaic cells, and sequence of phenomena involved in solar power generation. This is followed by separate chapters on each of the processes that take place in solar cell. These include solar input; properties of semiconductors; recombination and the flow of photogenerated carriers; charge separation and the characteristics of junction barriers; and calculation of solar efficiency. Subsequent chapters deal with the operation of specific solar cell devices such as a single-crystal homojunction (Si); a single-crystal-heterojunction/buried-homojunction (AlGaAs/GaAs); and a polycrystalline, thin-film cell (Cu_xS/CdS). This book is intended

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for upper-level graduate students who have a reasonably good understanding of solid state physics and for scientists and engineers involved in research and development of solar cells.

We are hearing a LOT about renewable energy these days! But unlike most available resources on alternative energy that focus on politics and economic impacts, da Rosa's practical guide, *Fundamentals of Renewable Energy Processes*, is dedicated to explaining the scientific and technological principles and processes that enable energy production from safe, renewable, clean sources. Advances in the renewable energy sphere are proceeding with an

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Unprecedented speed, and in order for the world's alarming energy challenges to be solved, solid, up-to-date resources addressing the technical aspects of renewables are essential. This new, updated 2e of da Rosa's successful book continues to give readers all the background they need to gain a thorough understanding of the most popular types of renewable energy—hydrogen, solar power, biomass, wind power, and hydropower—from the ground up. The latest advances in all these technologies are given particular attention, and are carefully contextualized to help professionals and students grasp the "whys and hows" behind these breakthroughs. Discusses

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how and why the most popular
renewable energy sources work,
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technical grounding for all
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investigating renewable energy
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