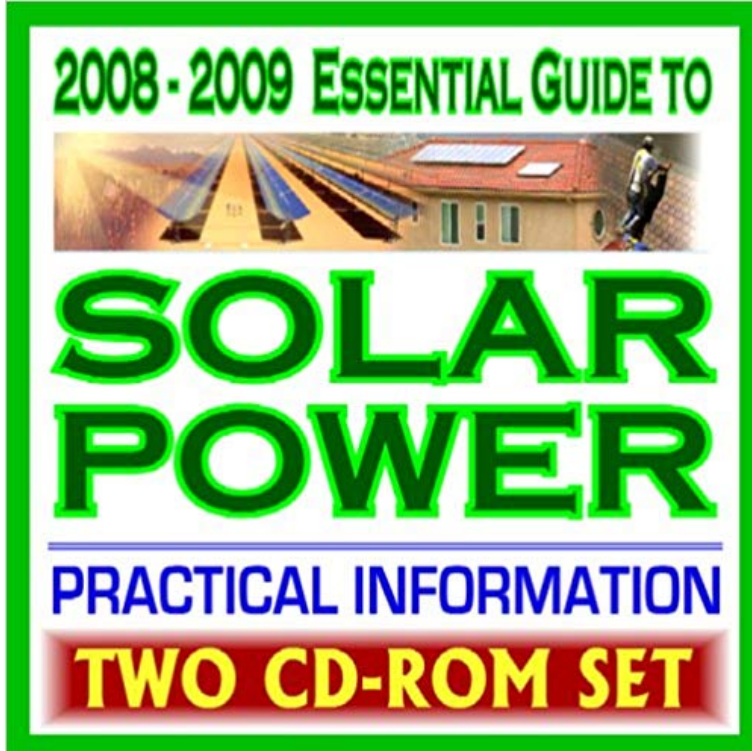


2008-2009 Essential Guide to Solar Energy, Photovoltaics, Solar Cells, Roof Panels, Heating, Lighting, Concentrating - Complete Guide with Practical ... and Government Research (Two CD-ROM Set)



This up-to-date and comprehensive electronic book on two CD-ROMs presents an incredible, totally revised and greatly expanded collection of important documents and publications about solar energy, solar heating and lighting, solar concentrating technology, and photovoltaic (PV) solar power cells. Encyclopedic coverage of every practical aspect of solar power, heating, electricity, and research is thoroughly covered in this incredible collection! Federal documents cover the U.S. Department of Energy (DOE) Photovoltaics Program; National Renewable Energy Laboratory (NREL) Center for Photovoltaics; Photovoltaics for Buildings; Photovoltaics Silicon Materials Research; Solar Decathlon; Amorphous Silicon; NREL Solid State Theory Group and Solid State Spectroscopy. Office of Energy Efficiency and Renewable Energy; Environmental Safety & Health; DOE Climate Challenge; National Center for Photovoltaics; Photovoltaics Research & Development; Photovoltaic Silicon Materials Research; Amorphous Silicon; Solid State Theory; Spectroscopy. National Center for Photovoltaics (NCPV) Partnership Opportunities; PV Roadmap; Physics and Design of Solar Cells; R & D Partner Fact Sheets. Photovoltaics for Buildings coverage includes: Learn About PV; Homes and Commercial Buildings; Whole-Building Design; Solar Electricity; New Applications and Lessons Learned Report, much more. Viable solar energy technology topics covered include: Solar Cells * photovoltaic (PV) power * flat-plate PV * concentrating PV * off-grid * on-grid * conversion efficiencies * solar thermal electric * solar industry * DOE research goals and targets * thermal dishes * towers * troughs * central generation * passive solar * solar water heating * solar heating and lighting * nanotechnology solar cells * organic solar cells * abbreviations and acronyms. Solar

energy technologies have great potential to benefit our nation. They can diversify our energy supply, reduce our dependence on imported fuels, improve the quality of the air we breathe, offset greenhouse gas emissions, and stimulate our economy by creating jobs in the manufacturing and installation of solar energy systems.

Concentrating Solar Power: CSP systems use reflective materials that concentrate the sun's heat energy to drive a generator that produces electricity.

Photovoltaics: PV systems use semiconductor materials that convert sunlight directly to electricity.

Solar Heating: Solar collectors absorb the sun's energy to provide low-temperature heat used directly for hot water or space heating for residential or commercial buildings.

Solar Lighting: Parabolic collectors focus sunlight into a fiber optic system to illuminate building interiors with sunlight.

The Solar America Initiative (SAI) is a part of the President's Advanced Energy Initiative and will accelerate the development of advanced photovoltaic materials with the goal of making it cost-competitive with other forms of renewable electricity by 2015. The U.S. Department of Energy Solar Energy Technology Program (SETP) will achieve the goals of the SAI through partnerships and strategic alliances with industry participants, universities, federal and state government, and other nongovernmental agencies by focusing primarily on four areas:

- Market Transformation - activities that address marketplace barriers and offer the opportunity for market expansion *
- Device and Process Proof of Concept - R&D activities addressing novel devices or processes with potentially significant performance or cost advantages *
- Component Prototype and Pilot-Scale Production - R&D activities emphasizing development of prototype PV components or systems produced at pilot-scale with demonstrated cost, reliability, or performance advantages *
- System Development and Manufacturing.

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