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In solar thermal power systems, solar thermal energy, usually collected by concentrating solar collectors, is used to operate a heat engine. Some of these systems also incorporate heat storage, which allows them to operate during cloudy weather and nighttime.

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Photovoltaics This process of converting light (photons) to electricity (voltage) is called the photovoltaic (PV) effect. This is possibly the most interesting solar energy area from an engineering perspective.

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Over several editions, Solar Engineering of Thermal Processes has become a classic solar engineering text and reference. This revised Fourth Edition offers current coverage of solar energy theory, systems design, and applications in different market sectors along with an emphasis on solar system design and analysis using simulations to help readers translate theory into practice.

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His current areas of research includes solar energy conversion, thermochemical and biochemical conversion, energy management, energy storage (li-ion and thermal energy) and integration of renewable energy for remote electrification.

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