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Abstract. In this chapter, general information about photovoltaic solar energy conversion, silicon and other solar cells, solar modules, solar batteries, charge controller, inverter, urban and rural application of solar cells, PV solar plants, solar module efficiency dependence on their orientation and tilt angle, solar modules soiling, smart systems and mini-grids, economy of PV systems, and ... *Nanostructured Materials for Next-Generation Energy ...*

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