

SOLAR CELL TECHNOLOGY

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Abstract

Solar cells are a promising and potentially important technology and are the future of sustainable energy for the human civilization.

This research describes the latest information achievement in the field of solar cells. The research also contains data related to the worlds' energy and particularly that part which related to the conversion of solar energy into electrical energy. On the basis of these data prospects of solar energy for human and the possible ways of implementing the latest advanced Photovoltaic technology are defined. Also, methods of conversion of solar energy into electricity, working principles and materials used for various types of photovoltaic technology, as well as the global solar market, present cost of solar energy and roadmap of solar energy is presented in this research .

Imagine solar cells installed in cars to absorb solar energy to replace the traditional use of diesel and gas. Using the same principle, cell phones can also be charged by solar energy. There are such a wide variety of applications.

Keywords: solar cells, first, second and third-generation PV technologies, global solar market.