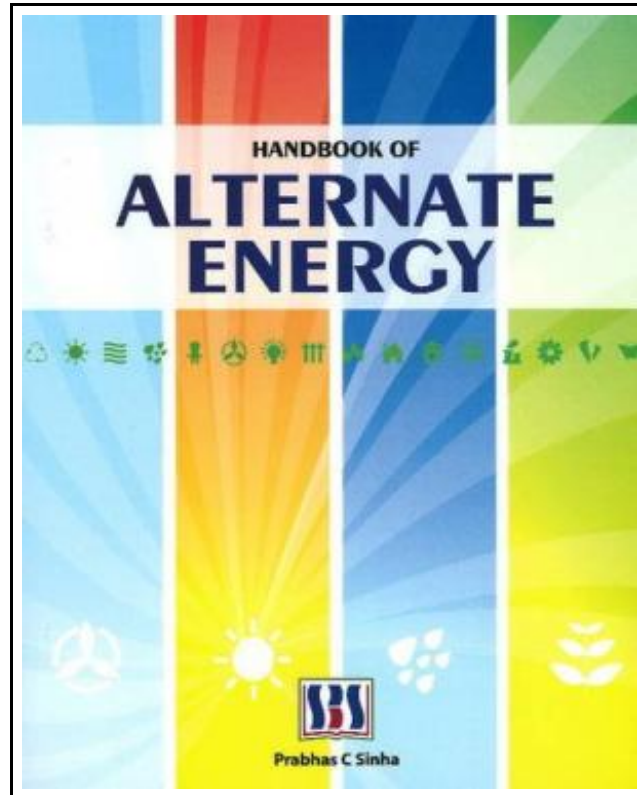


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SBS Publishers. Hardback. Book Condition: new. BRAND NEW, Handbook of Alternate Energy, Prabhas Chandra Sinha, This is a complete sourcebook on the subject of alternative energy. An introduction to alternative and renewable energy is provided with focus on energy development, co-processing, distributed generation, virtual power plant, country-wise electricity production from renewable sources, and related case studies. Various sources, forms and concerns of alternative energy are covered, including that of energy fuel. The capacity factor and environmental concerns with electricity generation are covered. The solar thermal energy and photovoltaic are discussed in detail. The third generation photovoltaic cell, nanoantenna, dye-sensitised solar cell and dye Sol are analysed. Solar energy technology and companies are described, with select case studies. The subject areas of hydropower and hydroelectric energy are covered with special focus on types of hydropower plants, history of hydropower development, types of hydropower turbines, mobile hydricity and run-of-the-river hydroelectricity. The advantages and disadvantages of hydropower are explained. The select national patterns in geothermal energy and power are discussed with case studies of Australia, China, Iceland, New Zealand, United Kingdom, Portugal, Turkey and the USA. An overview of bioenergy and biomass is provided giving the case studies China and New Zealand biomass programmes. An introductory overview of biofuel energy and road to sustainable biofuel is discussed. The food bioenergy crops such as jatropha curcas, Chinese tallow, hemp, maize, sorghum bicolor, soybean, stover, straw, sugarcane and sunflower are described. Similarly the non-food bioenergy crops such as miscanthus giganteus, panicum virgatum, etc are discussed. The various bioenergy technologies, such as, bioconversion of biomass to mixed alcohol fuels; biomass heating systems; biorefinery; industrial biotechnology; pellet mill; pellet stove, thermal depolymerization and cellulosic ethanol commercialisation are highlighted. The energy from wind power and wind turbines are covered with highlights on wind farms, wind generators, wind turbines,...

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