Abstract

This book covers the treatment and synthesis of electric-generating power plant technology and engineering, with a balance between the analytical and technological aspects of powerplant design, systems and effects. The chapters are on the following topics: thermodynamics; the Rankine cycle; fossil-fuel steam generators; fuels and combustion; turbines; the condensate-feedwater system; the circulating water system; gas turbine and combined cycles; principles of nuclear energy; thermal fission reactors and powerplants; fast-breeder reactors and powerplants; geothermal energy; solar energy; wind energy; energy from the oceans; energy storage; and the environmental aspects of power generation. 194 refs.

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Publication Date:

Jan 01, 1984

Product Type:

Book

Reference Number:

CLA-87-000126; EDB-87-022278

Subject:

20 FOSSIL-FUELED POWER PLANTS; POWER PLANTS; ENGINEERING; ENVIRONMENTAL EFFECTS; TECHNOLOGY ASSESSMENT; COMBINED CYCLES; ELECTRIC POWER; ENERGY STORAGE SYSTEMS; FOSSIL-FUEL POWER PLANTS; GEOTHERMAL ENERGY; NUCLEAR POWER PLANTS; POWER GENERATION; RANKINE CYCLE; RENEWABLE ENERGY SOURCES; SOLAR ENERGY; STEAM GENERATORS; THERMAL POWER PLANTS; THERMODYNAMICS; TURBINES; BOILERS; ENERGY; ENERGY SOURCES; ENERGY SYSTEMS; MACHINERY; NUCLEAR FACILITIES; POWER; THERMODYNAMIC CYCLES; TURBOMACHINERY; VAPOR GENERATORS; 200100\* - Fossil-Fueled Power Plants- Power Plants & Power Generation

OSTI ID:

6912061

Country of Origin:

United States

Language:

English

Submitting Site:

CLA

Size:

Pages: 876

Announcement Date:

May 13, 2001