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a definitive guide to energy systems engineering thoroughly updated for the latest

technologies fully revised for the latest technologies and data this hands on guide clearly explains the design evaluation and environmental impact of both conventional and sustainable energy systems you will get comprehensive coverage of all types of energy systems from fossil fuels and nuclear energy to solar wind and biofuels energy systems engineering evaluation and implementation fourth edition lays out each technology and discusses applications benefits and liabilities this edition contains brand new chapters that cover energy conservation small scale hydropower geothermal and heat pump systems among other subjects coverage includes engineering economic tools climate change and climate modeling fossil fuel resources stationary combustion systems energy conservation carbon sequestration nuclear energy systems solar energy solar photovoltaic technologies active and passive solar thermal applications wind energy systems bioenergy resources and systems transportation energy technologies including electric vehicles systems perspective on transportation energy emerging technologies and systems creating the twenty first century energy system

this text is concerned with the methods in which different types of energy are converted from one form to another in particular the book examines why so many of the energy conversion processes which involve heat have a low efficiency rating

the philosophy of the text is based on the development of an inductive approach to the formulation and solution of applied problems explores the principle that heat transfer rests on but goes beyond thermodynamics ideal as an introduction to engineering heat transfer

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