

Chapter 2 introduces key elements of electric power systems and alternating current (AC) networks. The chapter starts with a discussion of direct current (DC) circuits, introducing voltage, current, energy, power and losses.

Electric power has become increasingly important as a way of transmitting and transforming energy in industrial, military and transportation uses. Electric power systems are also at the heart of alternative energy systems, including wind and solar electric, geothermal and small scale hydroelectric generation.

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This chapter represents fundamental principles of electric circuits related to power generation, load, and source connections in single and three-phase systems, and essential theoretical theorems describing the operation of power systems in detail.

The power system is a complex system with a variety of participants, including generators, prosumers, aggregators, utilities, system operators, etc. Each participant plays an essential role, creating a giant network for monitoring, control, and protection.

Electrical power systems are real-time energy delivery systems, which means that the power is generated, transported, and supplied when the power switch is turned on. These systems do not store electrical energy and instead generate electrical power as the demand calls for it.

A steam turbine used to provide electric power. An electric power system is a network of electrical components deployed to supply, transfer, and use electric power. An example of a power system is the electrical grid that provides power to homes and industries within an extended area. The electrical grid can be broadly divided into the ...

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