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Example 6.1: In a factory a 3 φ, 4 kV, 400 kVA synchronous machine is installed along with other induction motors. The following are the loads on the machines: Induction motors: 500 kVA at 0.8 PF lagging. Synchronous motor: 300 kVA at 1.0 PF. A. Compute the overall power factor of the factory loads. B. To improve the factory power factor, the synchronous machine is overexcited (to draw ...

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Chapter 6. Synchronous Machines - Educypedia Synchronous Motor and Synchronous Generator are together refereed as Synchronous machine. Their basic construction is also same. Therefore, construction of synchronous machines discussed in the post applies well for synchronous motor and generator.

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A PRACTICAL AC SYNCHRONOUS MACHINE AC synchronous machines are built with the armature on the stator and the field on the rotor. The rotor is located inside the stator. Instead of a permanent magnet, this machine uses an electromagnet to create the field. A DC voltage is applied to the coils on the rotor, creating north and south poles.

CHAPTER 6

Chapter 3 Synchronous Machines Topics to cover: 1) Introduction 2) Synchronous machine structures 3) Rotating magnetic field 4) Equivalent circuit model 5) Performance as a generator 6) Performance as a motor Introduction A synchronous machine is an ac rotating machine whose speed under steady state condition is proportional to the frequency of the current in its armature.

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Synchronous Machines A s we have seen in Section 4.2.1, a synchronous machine is an ac machine whose speed under steady-state conditions is proportional to the frequency of the current in its armature. The rotor, along with the magnetic field created

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The synchronous machine is at the heart of power generation in any conventional power system. This chapter presents the principles of this machine and its characteristics, which are essential for students to relate with such machines in a microgrid environment. There are different types of excitation systems for synchronous machines.

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Chapter 6—Asynchronous Generators 6-2 and loads is almost limitless, so only a few combinations will be considered in any detail. 1 ASYNCHRONOUS SYSTEMS In the previous two chapters, we examined combinations of wind turbines, transmissions, and generators connected to the electrical grid. The electrical grid was assumed to be able to

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Figure 6.1 Interconnected induction and synchronous machines. \n . 6.8 A system such at that shown in Fig. 6.1 is used to convert balanced 50-Hz voltages to other frequencies. The synchronous motor has four poles and drives the interconnected shaft in the clockwise direction.

PROBLEMS - chapter 6

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