

Synchronous Machines Nptel

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Three-phase representations: abc-frame, $\alpha\beta$ -frame and dq-frame

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Lecture 85: Analysis of Salient Pole Synchronous Machine

Lecture 82: Synchronous Motor Operation, Phasor Diagram and Power Expression

Working of Synchronous Motor *Mod-01 Lec-31 Modelling of Salient Pole*

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Synchronous Machine Working Principle: Figure 5.2 shows the simplified version of an ac Synchronous Machine Working Principle with a 2-pole field winding on the rotor and a single coil aa' on the stator. This type of rotor poles are known as salient (projecting) poles; and are excited by means of dc fed to the concentrated field winding. The current is fed to the rotor via two slip-rings and carbon brushes as shown already.

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Synchronous Machine. Synchronous Machine constitutes of both synchronous motors as well as synchronous generators. An AC system has some advantages over DC system. Therefore, the AC system is exclusively used for generation, transmission and distribution of electric power. The machine which converts mechanical power into AC electrical power is called as Synchronous Generator or Alternator.

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Synchronous machines are commonly used as generators especially for large power systems, such as turbine generators and hydroelectric generators in the grid power supply. Because the rotor speed is proportional to the frequency of excitation, synchronous motors can be used in situations where constant speed drive is required.

Chapter 6. Synchronous Machines

chapter 08: synchronous generators. chapter 09: synchronous motors. chapter 10: induction machines. chapter 11: special machines. chapter 12: transmission and distribution of power ...

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Let us discuss the meaning of an alternator in this short introduction to Synchronous generator. -----...

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The synchronous machine is an electromechanical device, and thus also requires expressions for the electromagnetic torque and the speed of the machine. Equation SM-21 expresses the electromagnetic torque in terms of the flux linkages, and equation SM-22 determine the rotational speed from the electromagnetic torque, load torque, and moment of inertia.

Synchronous Machine Explanation and Demonstration

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