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Chapter 5: Synchronous Machines

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Chapter 5: Synchronous Machines

This lecture note is based on the textbook # 1. Electric Machinery - A.E. Fitzgerald, Charles Kingsley, Jr., Stephen D. Umans- 6th edition- Mc Graw Hill series in Electrical Engineering, Power and Energy

Main features of synchronous machines:

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 by the dc field current on the rotor, rotates at the same speed as, or in synchronism with, the rotating magnetic field produced by the armature currents, and a steady torque results.

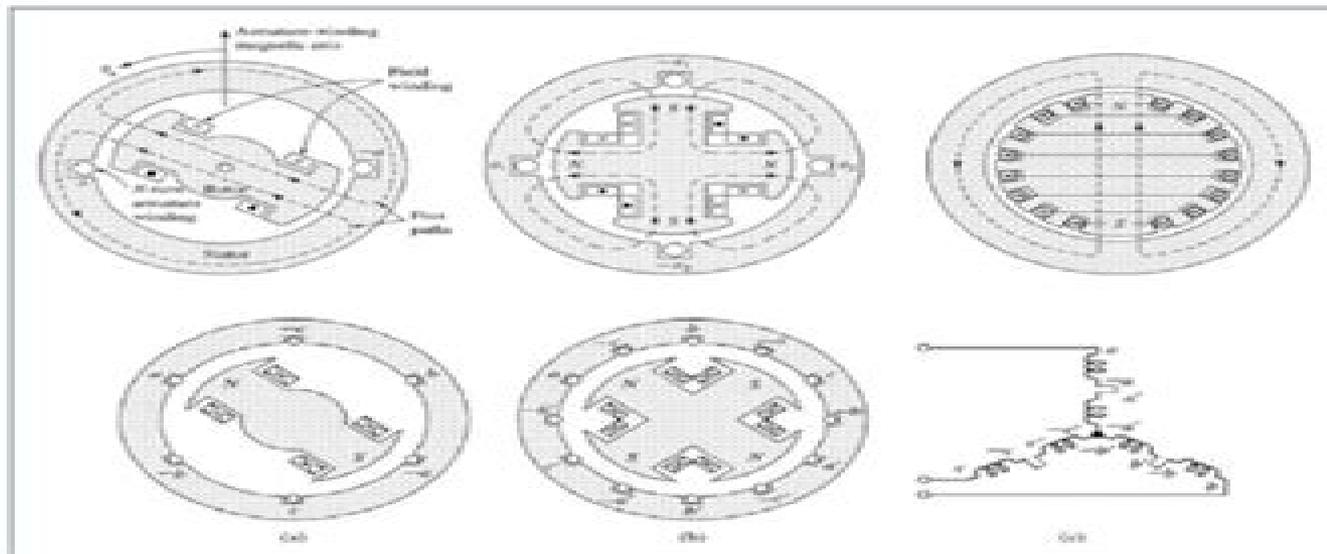


Figure 1

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Jack Holmes Walker



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Proceedings of ... International Conference on Power Electronics and Drive Systems ,2005 **Southern Power and Industry** ,1951 **Scientific and Technical Aerospace Reports** ,1991 Western Engineer ,1962 **Science Abstracts** ,1944 **Electrical & Electronics Abstracts** ,1997 **Kwic Index of International Standards** International Organization for Standardization,International Electrotechnical Commission,1991 **Pandex Current Index to Scientific and Technical Literature** ,1969 Metals Abstracts ,1978 **Synchronous Machines** Mulukutla S. Sarma,1979

Elementary Theory of Synchronous Machines John Myron Bryant,Elmer Walter Johnson,1934 *Synchronous Machines* Charles Concordia,1951 *Analysis of Synchronous Machines* T. A. Lipo,2008 *Large Synchronous Machines* Jack Holmes Walker,1981 *Synchronous Machines* Charles Concordia,1951 **Analysis of Synchronous Machines Under Unbalanced Conditions** Donald C. Robinson,Syracuse University. Graduate School,1933 **Starting Performance of Synchronous Machines** Harold Estus Keneipp,1932 **Linear Synchronous Machines** Amal

Souissi,Imen Abdennadher,Ahmed Masmoudi,2018-11-17 This book introduces readers to two major sustainable applications of linear synchronous machines wave energy conversion and magnetic levitation train technology To do so it begins with a state of the art review of linear machines covering induction and synchronous topologies and their applications with a particular focus on sustainable applications This is followed by an analysis of the electromagnetic modeling of linear synchronous machines the goal being to investigate their main features especially their force production capabilities

Synchronous Machines Harold W. Bibber,1936* Hunting of Synchronous Machines William Fred Schaller,2017-07-17 Excerpt from Hunting of Synchronous Machines Thesis Submitted in Partial Fulfillment of the Requirements for the Degree of Master of Science in Electrical Engineering in the Graduate School of the University of Illinois 1912The phenomenon of hunting has been the chief source of trouble in the Operation of synchronous machines It was first shown by Dr John A Hopkins some twenty years ago that when a pair of generators paralleled electrically and running steadily with an equal division of load have their equilibrium of uniform motion disturbed by for instance retarding or Speeding up one or the other a balancing force will be set up with a tendency to restore the state of uniform rotation This force acts to accelerate the slow machine and retard the fast one thus tending to keep the system in synchronism This reference applies equally well to synchronous motors or to synchronous condensers fed from alternating current supply mains there is a tendency to keep the whole system in step About the PublisherForgotten Books publishes hundreds of thousands of rare and classic books Find more at www.forgottenbooks.comThis book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to

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