

## SYLLABUS

### EE2259 -- ELECTRICAL MACHINES LABORATORY – I

#### AIM

To expose the students to the operation of D.C. machines and transformers and give them experimental skill.

1. Open circuit and load characteristics of separately and self excited DC shunt generators.
2. Load characteristics of DC compound generator with differential and cumulative connection.
3. Load characteristics of DC shunt and compound motor.
4. Load characteristics of DC series motor.
5. Swinburne's test and speed control of DC shunt motor.
6. Hopkinson's test on DC motor – generator set.
7. Load test on single-phase transformer and three phase transformer connections.
8. Open circuit and short circuit tests on single phase transformer.
9. Sumpner's test on transformers.
10. Separation of no-load losses in single phase transformer.

#### Ex.No.1

### OPEN CIRCUIT CHARACTERISTICS OF SELF EXCITED DC SHUNT GENERATOR

#### AIM

To obtain open circuit characteristics of self excited DC shunt generator and to find its critical resistance.

#### APPARATUS REQUIRED:

S.No.	Apparatus	Range	Type	Quantity
1	Ammeter	(0-1)A	MC	1
2	Voltmeter	(0-300)V	MC	1
3	Rheostats	1250 $\Omega$ , 0.8A	Wire Wound	2
4	SPST Switch	-	-	1
5	Tachometer	(0-1500)rpm	Digital	1
6	Connecting Wires	2.5sq.mm	Copper	Few

#### PRE CAUTIONS:

1. The field rheostat of motor should be in minimum resistance position at the time of starting and stopping the machine.
2. The field rheostat of generator should be in maximum resistance position at the time of starting and stopping the machine.
3. SPST switch is kept open during starting and stopping.

#### PROCEDURE:

1. Connections are made as per the circuit diagram.

# Ee2259 Electrical Machine 1 Lab Manual

**Eugene C. Lister**



## **Ee2259 Electrical Machine 1 Lab Manual:**

**Laboratory Manual for Electrical Machines, 2/e** D.P. Kothari, B. S. Umre, 2017-11-19 Laboratory Manual for Electrical Machines 2nd edition includes four new experiments in electrical machines so that it can cater to the complete syllabus of undergraduate laboratory courses of electrical machines This book gives the basic information to the students with the machine phenomenon working principles and testing methods etc It also imparts real physical understanding of various types of electrical machines The main attraction of this laboratory manual is its power point presentation for all experiments This manual is meant for electrical engineering students of B E and B Tech and polytechnics

**Electrical Machines Lab Manual with MATLAB Programs** D. K. Chaturvedi, 2010-07

**Laboratory Manual for Introduction to Electrical Machines** Domingo L. Uy, 1982

*Laboratory Manual in Electrical Machines* S. K. Bhattacharya, K. B. Raina, 19??

**Electrical Machines**, 1978

**Design of Electrical Machinery** William Thomas Ryan, 1912

**The Complete Laboratory Manual for Electricity** Stephen L. Herman, 2004-12 The Complete Laboratory Manual for Electricity 2E is the ultimate preparation resource for any curriculum dedicated to training electricians From basic electricity through AC theory transformers and motor controls all aspects of a typical electrical curriculum are explored in a single volume Hands on experiments that acquaint students with the theory and application of electrical concepts offer valuable experience in constructing a multitude of circuits such as series parallel combination RL series and parallel RC series and parallel and RLC series and parallel circuits Each lab features an explanation of the circuit to be connected with examples of the calculations necessary to complete the exercise and step by step procedures for conducting the experiment Labs use generic equipment and devices commonly found in most hardware stores and electrical supply houses and a materials list details the components necessary to perform all of the exercises

**Electric Circuits and Machines** Eugene C. Lister, 1974

*Lab Manual for Introduction to Electricity* A. J. Triple Sss Press, Robert T. Paynter, Toby Boydell, 2010-10 Lab Manual for Introduction to Electricity ISBN 0135106222 is available for purchase and can be ordered through your Pearson representative The lab manual contains over 45 exercises that were written to supplement the text Among its features The opening for each exercise ties the activity to the text material identifies the relevant chapter objectives and helps the student to connect the activity to working in the field Early exercises include detailed descriptions of the circuit connections along with step by step assembly instructions helping the student to build the circuits more quickly and efficiently The circuit descriptions and assembly instructions become more general as students progress through the manual moving them toward more independent lab activities In the first half of the manual circuit diagrams showing how the circuit elements are connected and how the circuit is tested are provided along with the circuit schematics helping the students to make the connection between schematic diagrams and actual component layouts The labs are intended for use with the Lab Volti EMS electromechanical systems line from Lab Volti Systems Inc with test equipment available from other providers However all

labs can be adapted to use similar manufacturerers

**The Complete Lab Manual for Electricity** Stephen L. Herman, 2008-02-25 The Complete Laboratory Manual for Electricity 3rd Edition is a valuable tool designed to fit into any basic electrical program that incorporates lab experience This updated edition will enhance your lab practices and the understanding of electrical concepts From basic electricity through AC theory transformers and motor controls all aspects of a typical electrical curriculum are explored in a single volume Each lab features an explanation of the circuit to be connected with examples of the calculations necessary to complete the exercise and step by step procedures for conducting the experiment Hands on experiments that acquaint readers with the theory and application of electrical concepts offer valuable experience in constructing a multitude of circuits such as series parallel combination RL series and parallel RC series and parallel and RLC series and parallel circuits Important Notice Media content referenced within the product description or the product text may not be available in the ebook version *EE100 Laboratory Manual* University of Newcastle (N.S.W.). Department of Electrical and Computer Engineering, 1987

**Experimental Electrical Engineering and Manual for Electrical Testing, Vol. 1** V. Karapetoff, 2015-06-24 Excerpt from Experimental Electrical Engineering and Manual for Electrical Testing Vol 1 For Engineers and for Students in Engineering Laboratories In preparing this book the author has aimed to produce a laboratory manual suitable for general electrical engineering work such as is covered during the Junior and Senior years in most American colleges of engineering The experiments described cover the principal types of electrical machinery and auxiliary devices as well as the most important commercial applications of electricity Some knowledge of physics is assumed on the part of the student and at least some elementary practice in a physical laboratory but for completeness of treatment several experiments are described recalling to the student s mind the fundamental physical laws of electricity and magnetism in their simpler practical aspects The arrangement of the book is such as to make each chapter as far as possible independent in this way the laboratory experiments may be performed in almost any desired order to suit the equipment at hand and the schedule of the class room exercises For the same reason cross references have been avoided as much as possible Each chapter covers one particular class of machinery or electrical relations the experiments of the chapter are described in an ascending scale of difficulty or importance For instance the chapters on direct current machines and on alternators are subdivided into 1 operating features 2 commercial tests and 3 a more advanced study of the magnetic circuit and armature windings For easy reference the experiments in each chapter bear the name of the chapter Thus the experiments in the third chapter are numbered 3 A 3 B 3 C etc The laboratory schedule can be arranged if desired so as to cover all the experiments of a particular chapter in succession but the author greatly prefers the so called concentric disposition of the course In accordance with this method the Junior year course is made up of elementary experiments selected from nearly all the chapters of the book the student being thus introduced to the whole domain of electrical engineering Then during the first term of his Senior year he performs more advanced experiments relating to the same

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ES 402 : Electrical Engineering Lab Manual Wayne M. Hope,2000     **Electrical Machines** ,1980     **Electrical Engineering Laboratory Manual. Machinery. (Measurements.)**. Stanley Parker Smith,1933     Electrical Machines 1 A. Balakrishnan,T. Vasantha Balakrishnan,2008

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