

AIM OF THE EXPERIMENT

To observe Speed control of DC Motor using

(A) Variation of armature circuit resistance.

(B) Variation of field circuit resistance.

APPARATUS REQUIRED:

SLNO	NAME OF APPARATUS	RANGE	QUANTITY
1	moving coil type ammeter	0-5A	1
2	moving coil type ammeter	0-3A	1
2	moving coil type voltmeter	0-300V	1
3	Rheostats	0-300ohms, 2Amp	1
4	Rheostat	50 Ohms, 5Amp	1
5	Tachometer	0-1000RPM	1
6	DC shunt Motor With Starter	7.5HP, 1200RPM, 220V, 30Amp	1
7	S.P.S.T switch		1

THEORY:

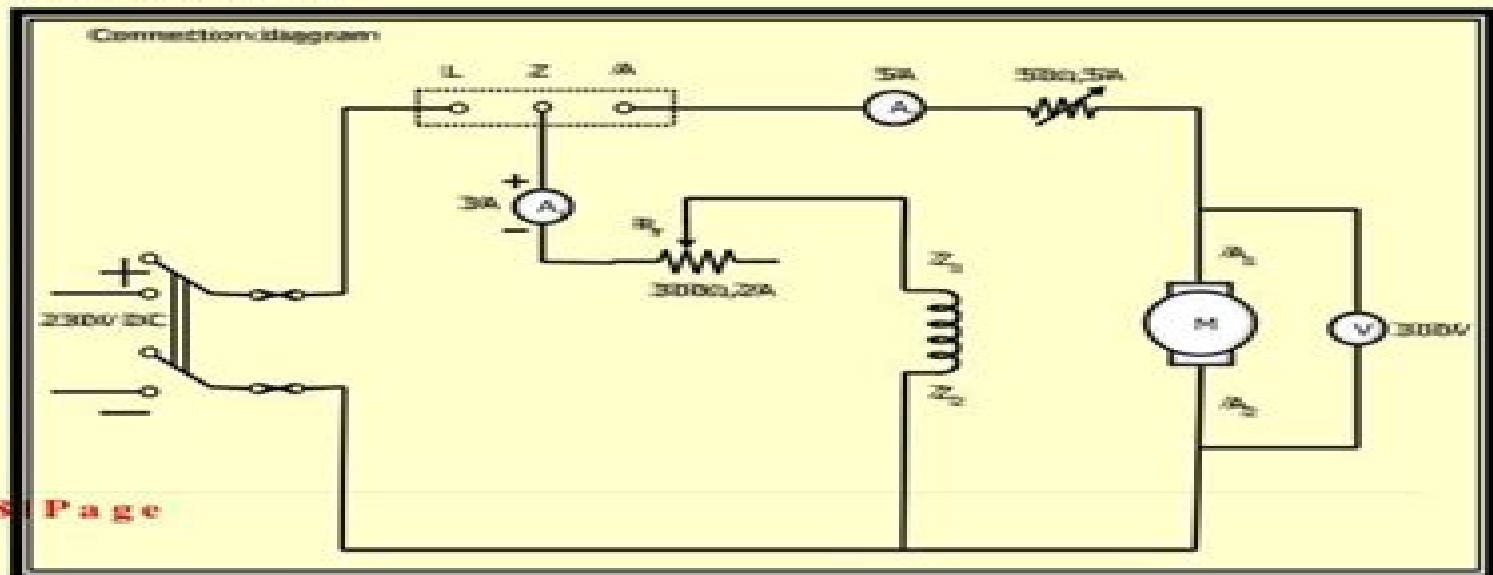
If V is the applied voltage across the motor terminals, E_b is the back emf developed, then $V = E_b + I_a R_a$. Where I_a and R_a the current and resistance in the armature circuit respectively.

But, $E_b = \frac{\phi Z N P}{60 A} = K \phi N$. Hence $V = K \phi N + I_a R_a$ i.e. $N = \frac{V - I_a R_a}{K \phi}$

This shows that:-

- An increase in the $I_a R_a$ drop will decrease the value of speed if V remains constant.
- Speed varies inversely as the field flux and hence varies inversely as the exciting current, if below saturation. Thus, by increasing the resistance in the armature circuit, a motor can be operated at speed below normal. By increasing the resistance in the field circuit, a motor can be operated at speeds above normal.

CIRCUIT DIAGRAM :



Manual Of Basic Electrical Lab For Diploma

Stephen L. Herman



Manual Of Basic Electrical Lab For Diploma:

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

Experiments In Basic Electrical Engineering S.K. Bhattacharya, 2007 It Has Often Been Experienced That Students Are Required To Perform Experiments On Certain Topic Before The Relevant Theory Has Been Taught In The Class A Laboratory Manual Which In Addition To A Set Of Instructions For Performing Experiments Includes Related Theory In Brief Could Help Students Understand Experiments Better In Response Of Demand From A Large Number Of States For An Appropriate Laboratory Manual In Basic Electricity And Electrical Measurements The T T T I Chandigarh Has Prepared This Manual Which Has Been Tried Out In Various Polytechnics And Improved Based On The Feedback The Basic Objective Of The Manual Is To Encourage Students To Perform Experiments Independently And Purposefully The Manual Organises The Information To Enable The Students To Verify Known Concepts And Principles And To Follow Certain Procedures And Practices And Thereby Acquire Relevant Skills Detailed Instructions For Carrying Out Each Experiment Alongwith Relevant Theory In Brief Have Been Given The Objectives For Performing An Experiment Have Been Included At The Beginning Of Each Experiment A List Of Questions Given At The End Of Each Experiment Will Help Students Evaluate His Own Understanding The Manual Also Includes Guidelines For Students And Teachers For Its Effective Use An Assessment Proforma Given At The Beginning Of The Manual May Be Used By The Teachers In Evaluating The Students Laboratory Manual for Introductory Electronics Experiments L. K. Maheshwari, M. M. S. Anand, 1979 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

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The 1980 Guide to the Evaluation of Educational Experiences in the Armed Services: Army American Council on Education, 1980

Basic Electronics Paul Bernard Zbar, 1976

Basic Electronics Paul B. Zbar, Albert Paul Malvino, 1983

Basic Electricity Paul B. Zbar, 1974 For students and instructors in vocational technical colleges

BASIC ELECTRICITY: A Text-Lab Manual Paul Zbar, David Bates, Gordon Rockmaker, 1999-12-23 Designed for use in traditional DC AC courses this text serves equally well as a stand alone introductory text and lab manual or as a lab manual for use with any basic theory text The content of this text lab manual is prepared with the technical assistance of the Electronic Industries Association guaranteeing that the material is consistent with the competencies of the electronics manufacturing and service industries

Radio-electronics, 1975

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Rider's Specialized AM-FM Hi-fi Tuner Manual, 1955

Electronics Illustrated, 1960

Basic Electrical LAB Experiment Guide Carolee McClure, 2021-07-23 Do you want to learn basic electrical engineering concepts Do you want to learn how to program manual solutions If so this book is for you Through this book you will explore the MATLAB based experiment to teach Basic Electrical Engineering Concepts with very concise theory to Undergraduate Students Useful for Freshmen and Sophomore students who are familiar with electrical theory yet find it difficult to program manual solutions This Edition contains 11 Experiments with Code Circuit Diagram and Output that will make students conversant with the Topic Highly useful if you want to know how to do Matlab programming

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