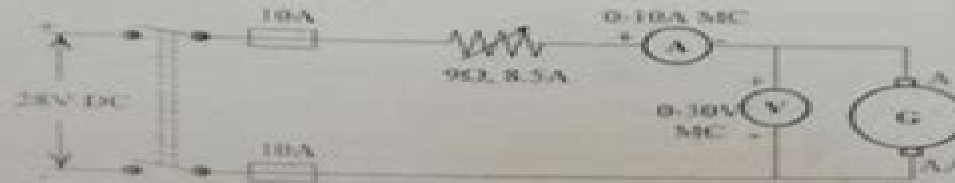


**Vision** : Living with effort

**Mission** : To generate technicians to meet the challenges in the field of electrical and electronics engineering and to make them competent enough to provide service to society

### ED ARMATURE RESISTANCE MEASUREMENT

Make the connections as shown in figure.



**Precautions:** Keep the rheostat at maximum position.

Switch on 28V d.c. supply. Note down the voltmeter and ammeter readings for different positions of rheostat.

Armature Resistance Measurement			
S.No.	V (volts)	I (amps)	$R_a = V/I \Omega$
1.			
2.			
3.			
$R_a$			

**SAMPLE CALCULATION (Set No. \_\_\_\_)**

Terminal voltage,  $V = \underline{\hspace{2cm}}$  V,

Field current,  $I_f = \underline{\hspace{2cm}}$  A,

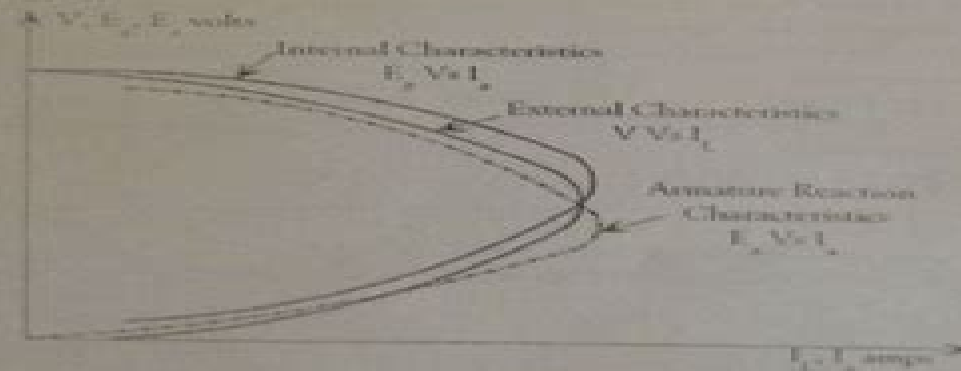
Load current,  $I_L = \underline{\hspace{2cm}}$  A

Armature current,  $I_a = I_f + I_L = \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$  A

Generated emf,  $E_g = V + I_a R_a = \underline{\hspace{2cm}}$  V

Armature reaction emf,  $E_a = E_g - E_f$

**MODEL GRAPH**



# House Wiring Lab Lab Manual

**Gregory W. Fletcher**



## House Wiring Lab Lab Manual:

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Craig, 2012-12-06 To the Instructor The purpose of this laboratory manual is not just to help students to set up electronic circuits that function as they should The important thing is the electronic concepts that the student learns in the process of setting up and studying these circuits Quite often a student learns more electronics when he has to trouble shoot a circuit than when the circuit performs as it should when first built It is unlikely that any students would be able to complete all of these experiments in one semester The author believes that all students should have laboratory experiences with power supplies amplifiers oscillators and integrated circuits Additionallabomtory experiments should be de termined by the instructor Therefore you can choose those that you want done Some students are more efficient in the labomtory than others Therefore some would be able to complete more exper iments in a semester than others Also many of these experiments cannot be completed in one two hour laboratory period If space is available the circuits could be left intact from one period to the next Or you might want to select steps in an experiment that you want to delete Neither the val ues of the components or the magnitudes of the power supplies as given in the instructions are critical Therefore you could in most cases change them if the ones recommended are not available      *Engineering Practices Lab Manual - 5Th* E T Jeyapoovan Nadar, Engineering Practices Lab Manual covers all the basic engineering lab practices in the Civil Mechanical Electrical and Electronics areas The manual details the various tools to be used and exercises to be practiced in the application of engineering practices in each field      **Home Equipment Laboratory Manual** Nell White, 1961      **Residential Construction Academy + Student Workbook With Lab Manual + Mindtap Electrical, 2 Terms 12 Months Printed Access Card** Gregory W. Fletcher, 2018      Student Workbook with Lab Manual for Fletcher's Residential Construction Academy: House Wiring, 5th

Gregory W. Fletcher, 2018 The student workbook is designed to help you retain key chapter content Included within this resource are chapter objective questions key term definition queries and multiple choice fill in the blank and true or false problems

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**Laboratory Manual for Automotive Electricity** William Roy Varner, Fred Colfax Smith, 1926 Habirshaw Manual of Wires and Cables Habirshaw electric cable Co, 1920 **Curriculum Materials for Trade and Industrial Education, 1963**, 1964 **Vocational Division Bulletin**, 1962 **Residential Construction Academy House Wiring** Greg

Fletcher, 2003-08-21 This book is written for the students who want to learn how to wire a home House Wiring covers the basic electrical wiring principles and practices with National Electrical Code references used in the installation of residential electrical wiring systems Wiring practices that are commonly used in today's residential electrical market are discussed in detail and presented in a way that not only tells what needs to be done but also shows how to do it Both general safety and electrical safety are stressed throughout the book About this book Vocational Division Bulletin United States. Division of Vocational and Technical Education, 1939

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