



SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A' Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

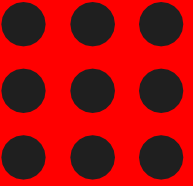
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

COURSE NAME : 19EE101-BASIC ELECTRICAL & ELECTRONICS ENGINEERING

I YEAR /I SEMESTER CSE & CST

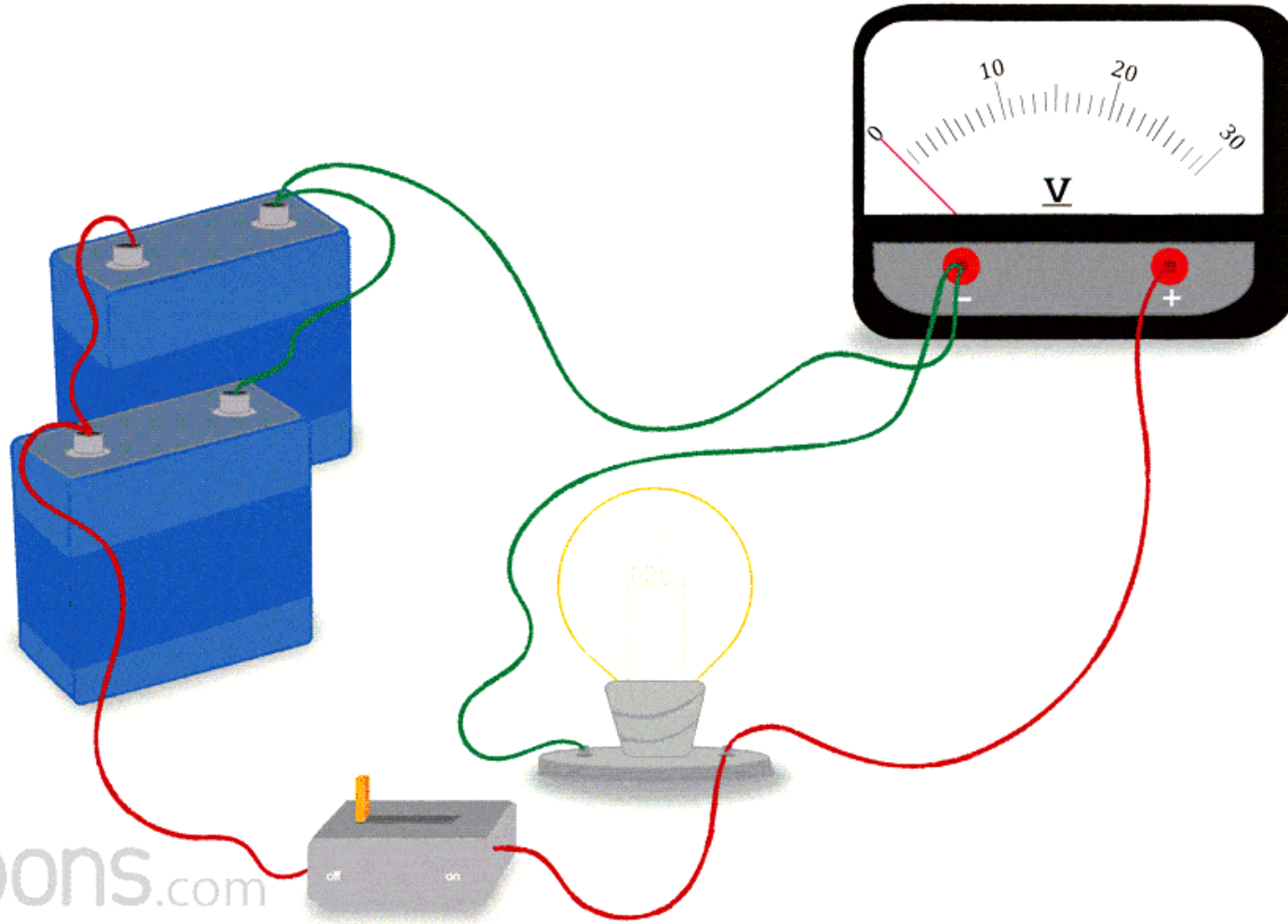
Unit 1: Electrical Circuits & Measurements

Topic : Measuring Instruments

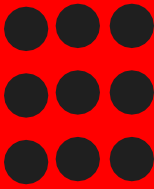




HOW IT IS WORKING? ANY GUESS?



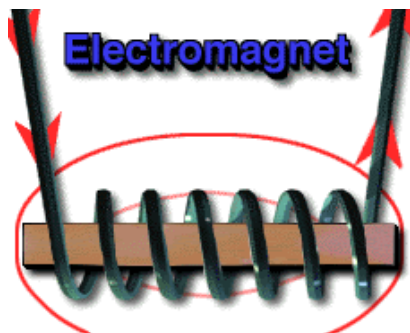
labtoons.com





TORQUE IN MEASURING INSTRUMENTS

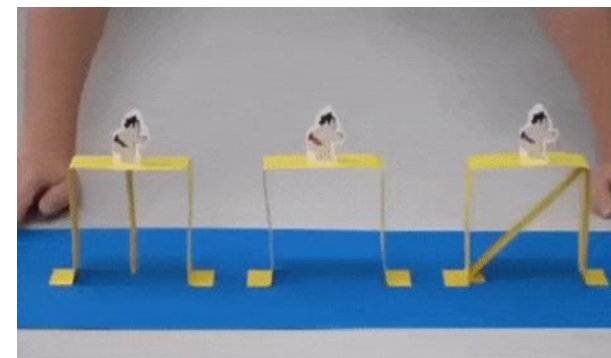
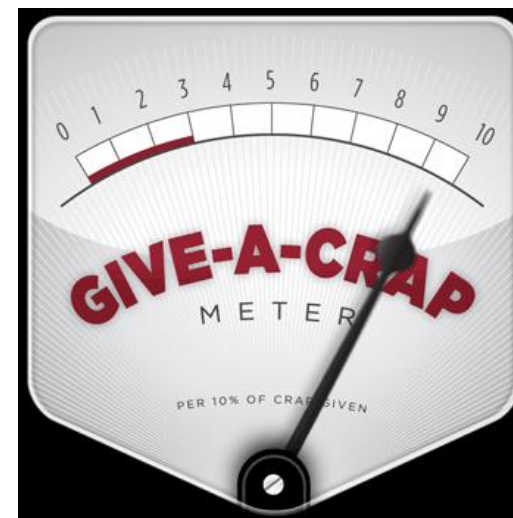
DEFLECTING TORQUE



CONTROLLING TORQUE

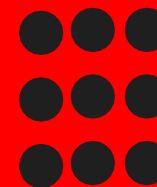


DAMPING TORQUE



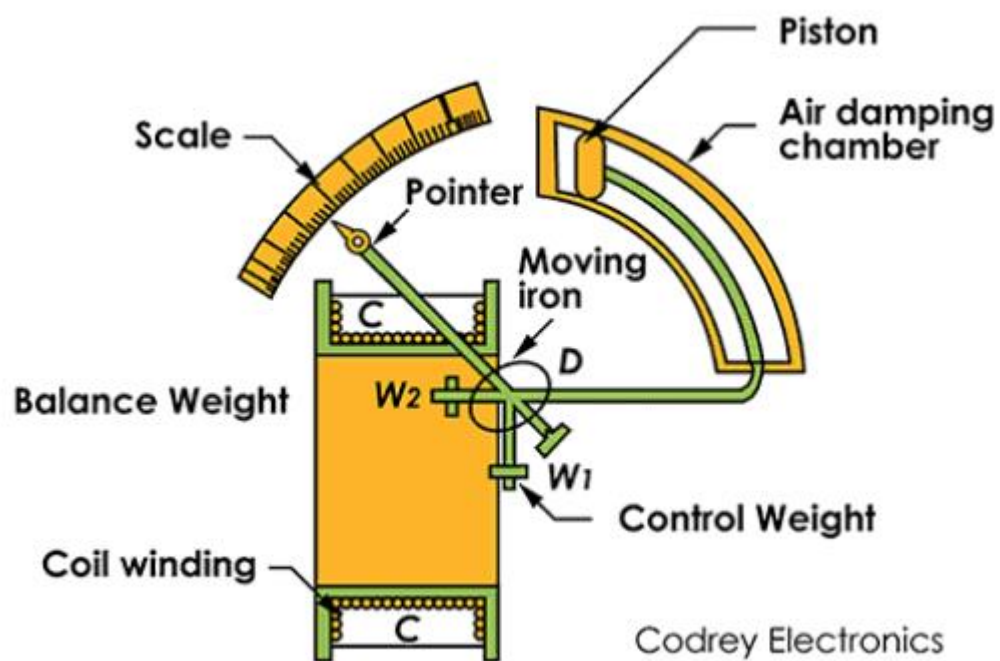


MOVING IRON INSTRUMENT (MI)

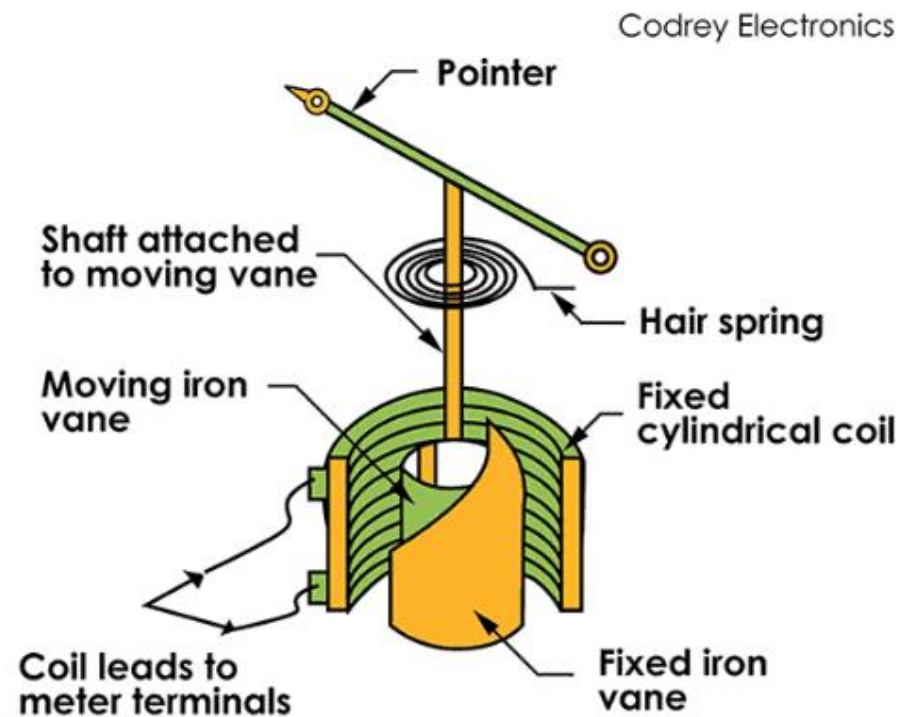


Attraction Type Moving Iron Instrument

Repulsion Type Moving Iron Instrument



Attraction Type Moving Iron



Repulsion Type Moving Iron

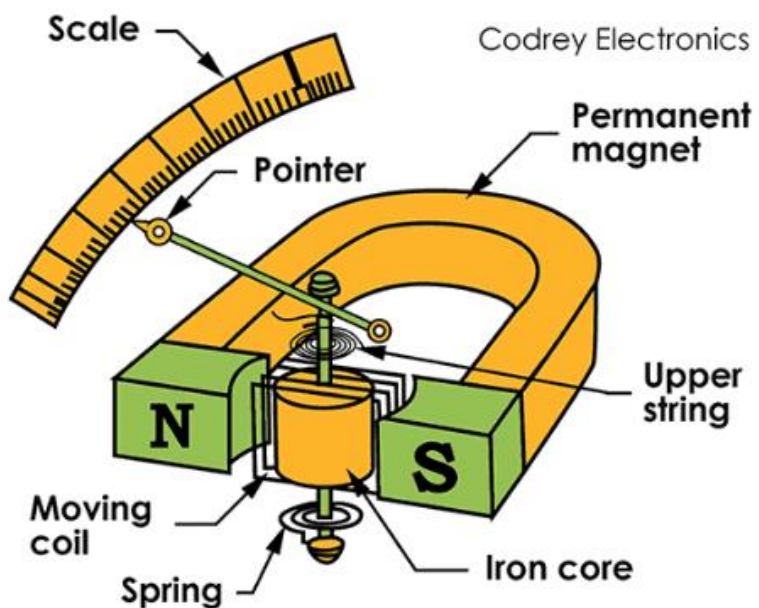
AC MEASUREMENT



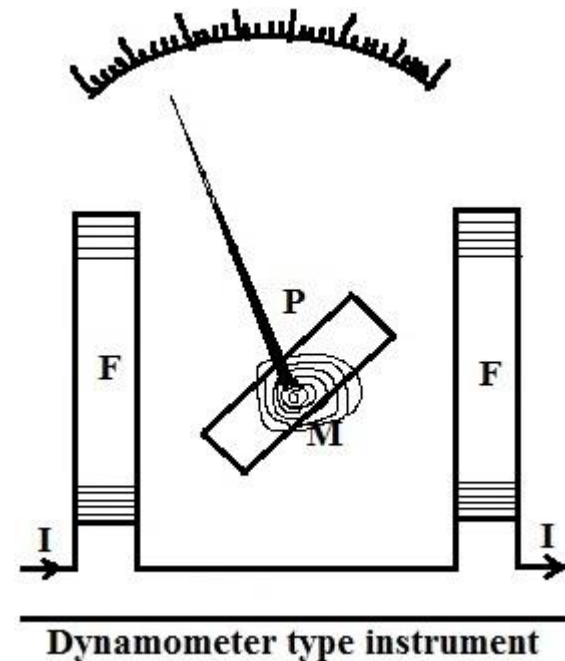


MOVING COIL INSTRUMENT (MC)

PERMANENT MAGNET MOVING COIL INSTRUMENT



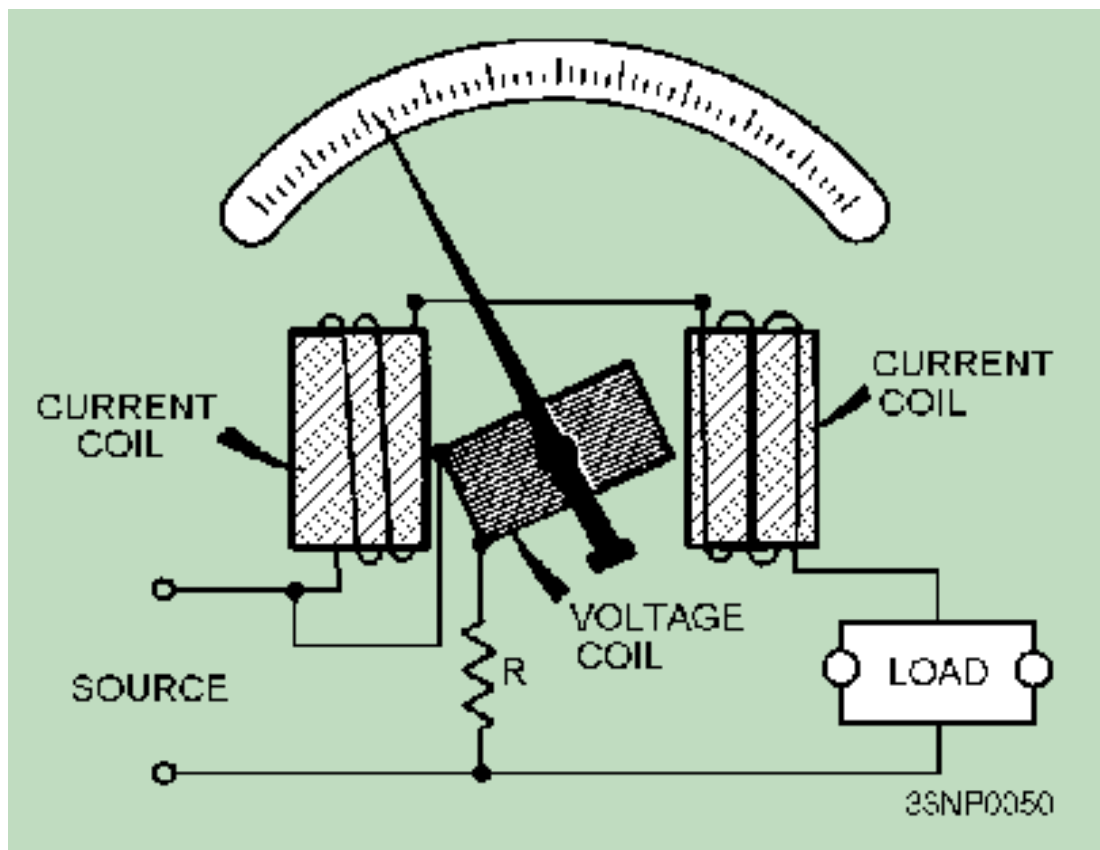
Moving Coil Measuring Instrument



DYNAMOMETER TYPE MOVING COIL INSTRUMENT



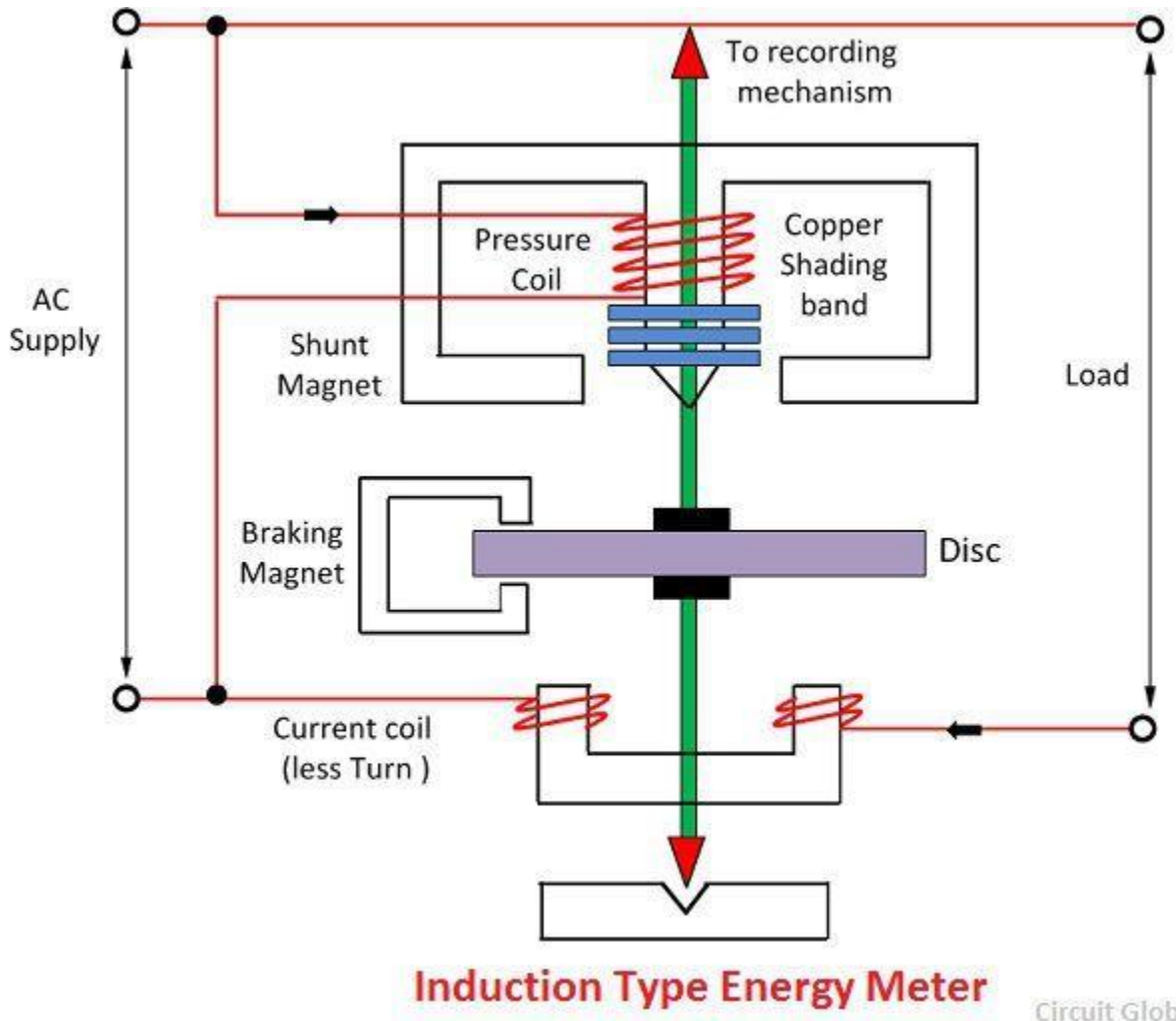
DYNAMOMETER TYPE WATTMETER



To measure AC Power



ENERGY METER





REFERENCES

1. Muthusubramanian R, Salivahanan S, “Basic Electrical and Electronics Engineering”, Tata McGraw Hill Publishers, (2009) - UNIT I – V
2. Bhattacharya. S.K, “Basic Electrical and Electronics Engineering”, Pearson Education , (2017) – UNIT I – IV
3. Mehta V K, Mehta Rohit, “Principles of Electrical Engineering and Electronics”, S.Chand & Company Ltd, (2010)- UNIT I and II
4. Mehta V K, Mehta Rohit, “Principles of Electronics”, S.Chand & Company Ltd, (2005)- UNIT IV and V

THANK YOU