



SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

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Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A' Grade

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

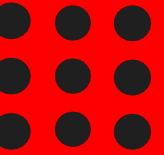
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

COURSE NAME : 19EE308 ELECTRICAL ENGINEERING & INSTRUMENTATION

II YEAR /III SEMESTER ECE

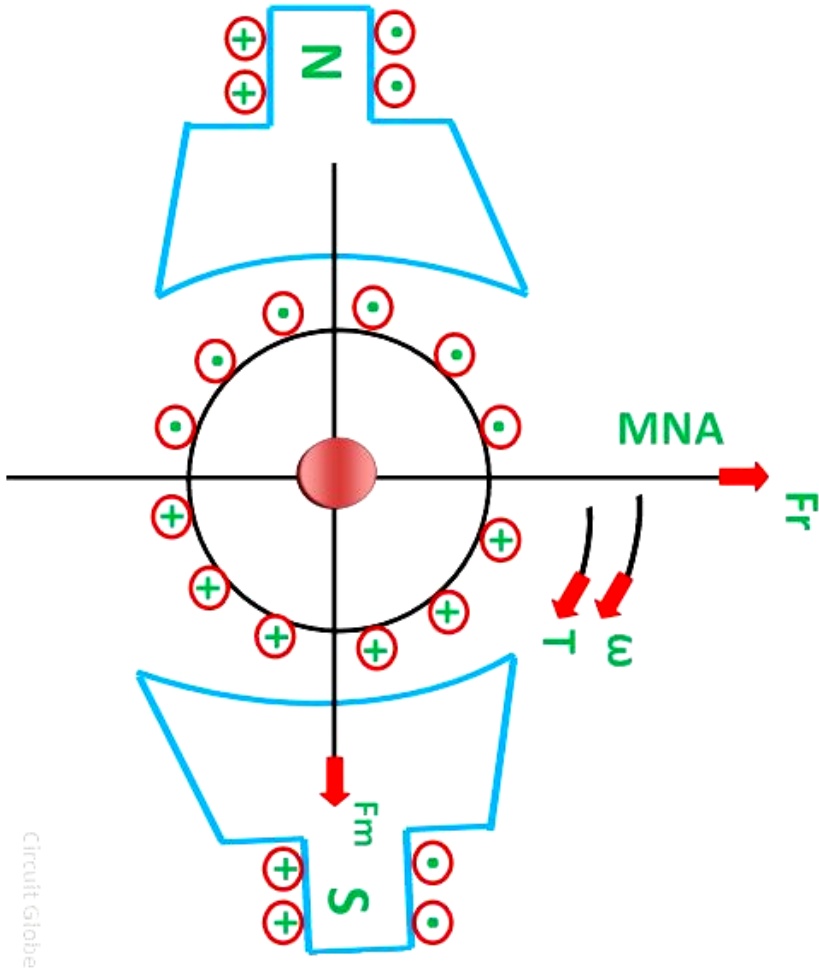
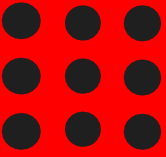
Unit 1 – DC MACHINES

Types of DC Motor





TORQUE PRODUCTION



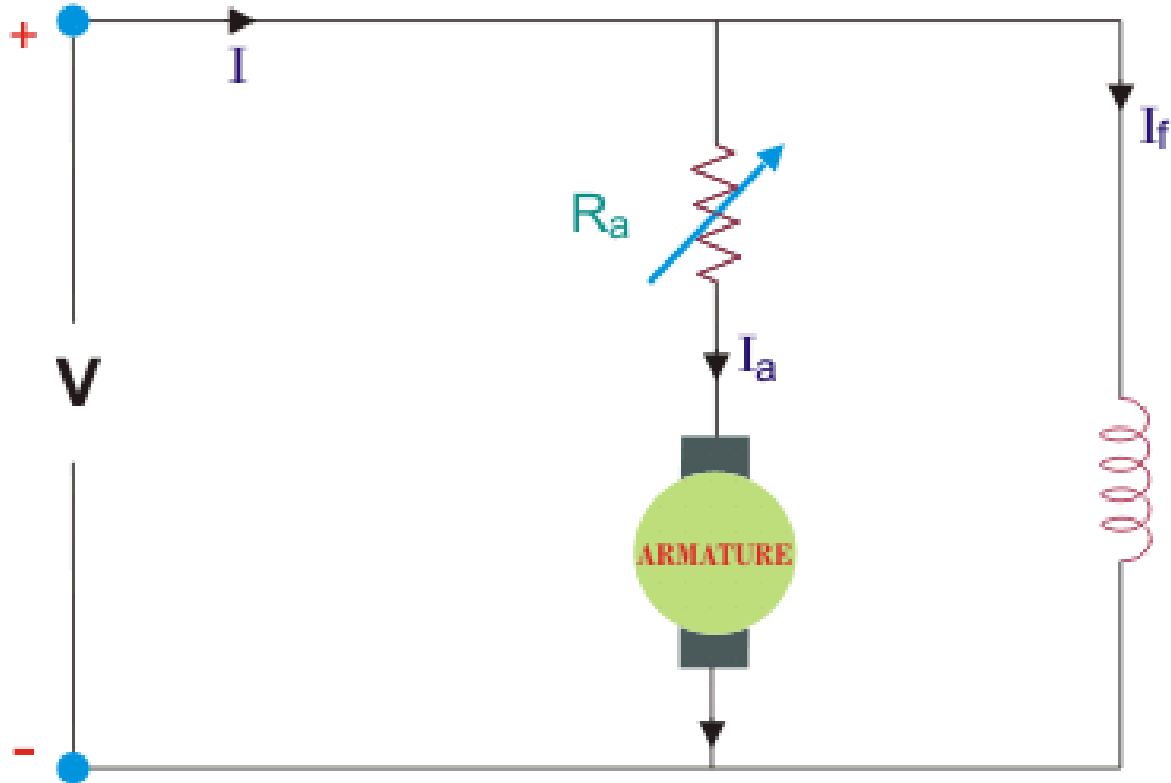
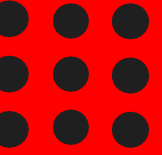
Two Forces

Supporting & Cancelling





SHUNT MOTOR



Derive the voltage equation for DC Shunt Motor

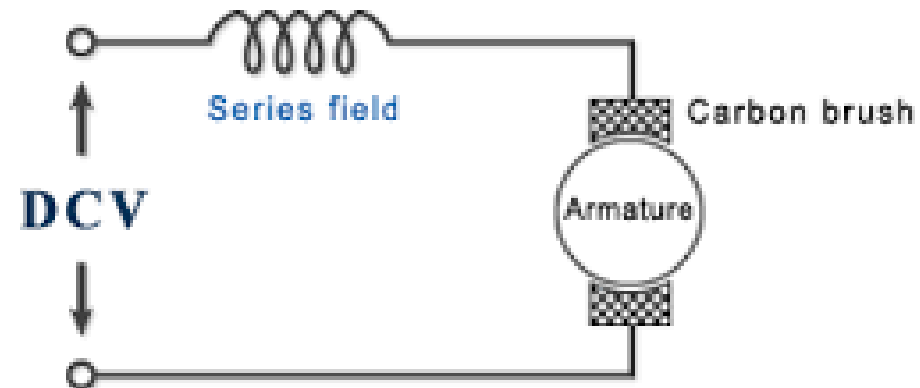




SERIES MOTOR

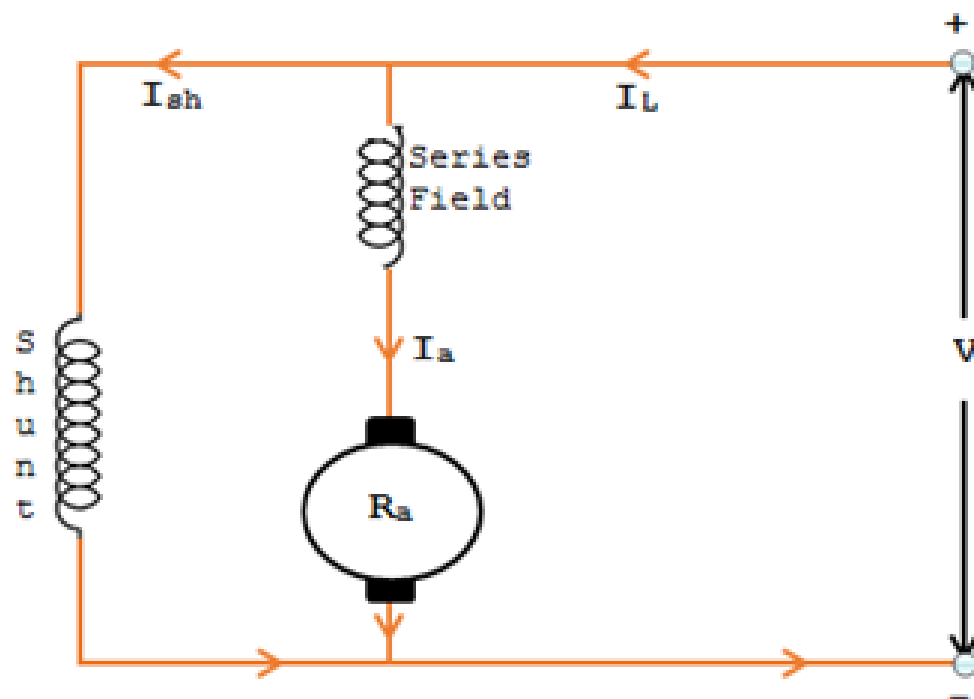
Derive the voltage equation for DC Series Motor

➤ Series DC motor





COMPOUND MOTOR



Derive the voltage equation for DC Compound Motor



Assessment 1

1. Compare DC Shunt Motor and DC Series Motor.





REFERENCES

1. Bhattacharya. S.K, “Basic Electrical and Electronics Engineering”, Pearson Education , (2017)
2. Muthu Subramanian R, Salivahanan S,“ Basic Electrical and Electronics Engineering”, Tata McGraw Hill Publishers, (2009)
3. V.Mittle“ Basic Electrical Engineering”, Tata McGraw Hill Publishers, (2017)
4. Nagrath. I.J, “Electronics: Analog and Digital”, Prentice Hall India Pvt. Ltd., (2013)

THANK YOU