



SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)



COIMBATORE-35

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: 19EEB203 Electrical Machines-I

II YEAR / III SEMESTER

Unit 2 – DC Motor

Topic 3: Types of DC Motor





What We'll Discuss

TOPIC OUTLINE



A Case
Classification of DC Motor
Assessment



A CASE



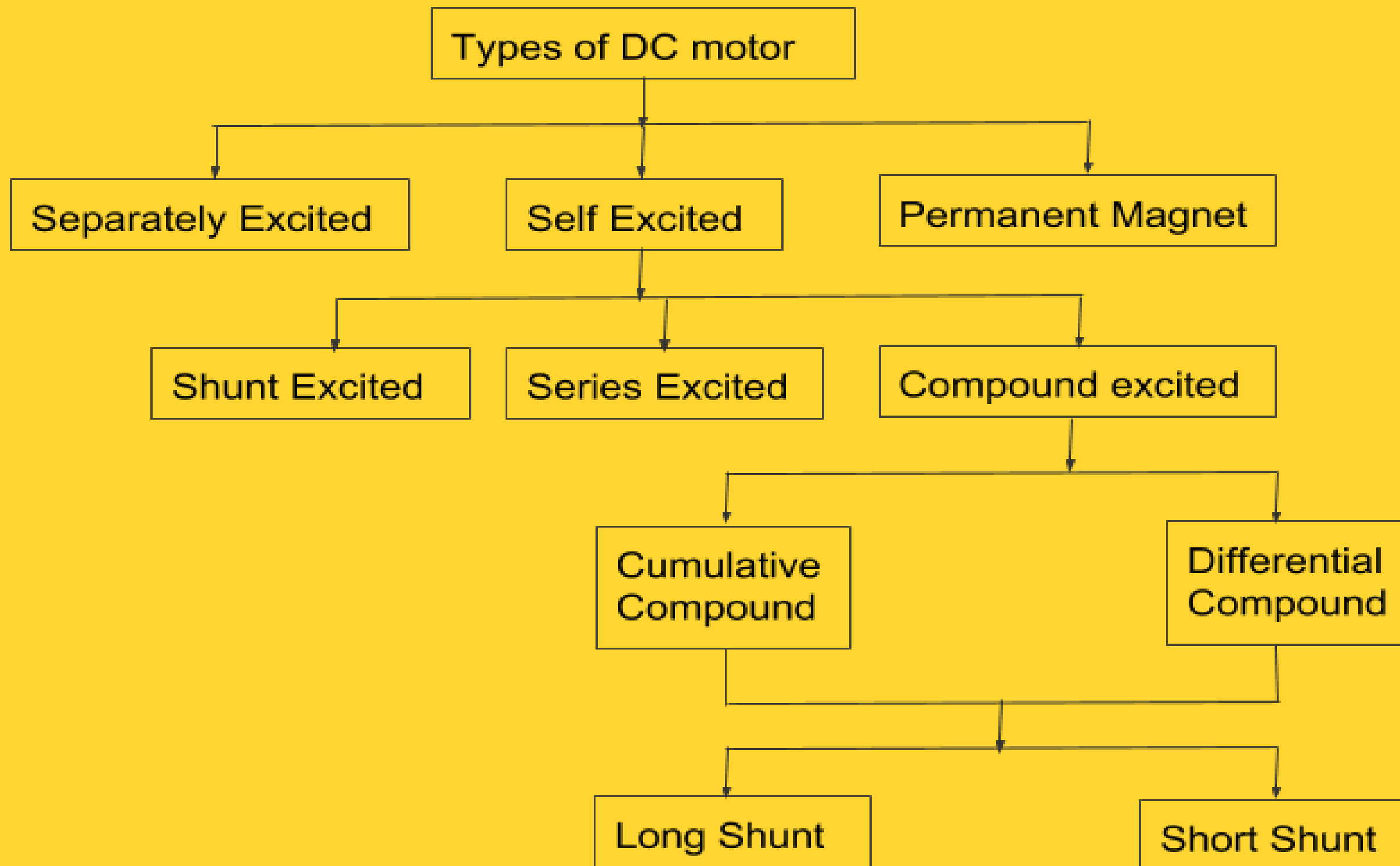
Think what type of motors are used in

1. Train and Escalators
2. Spinning mills and lathe machines



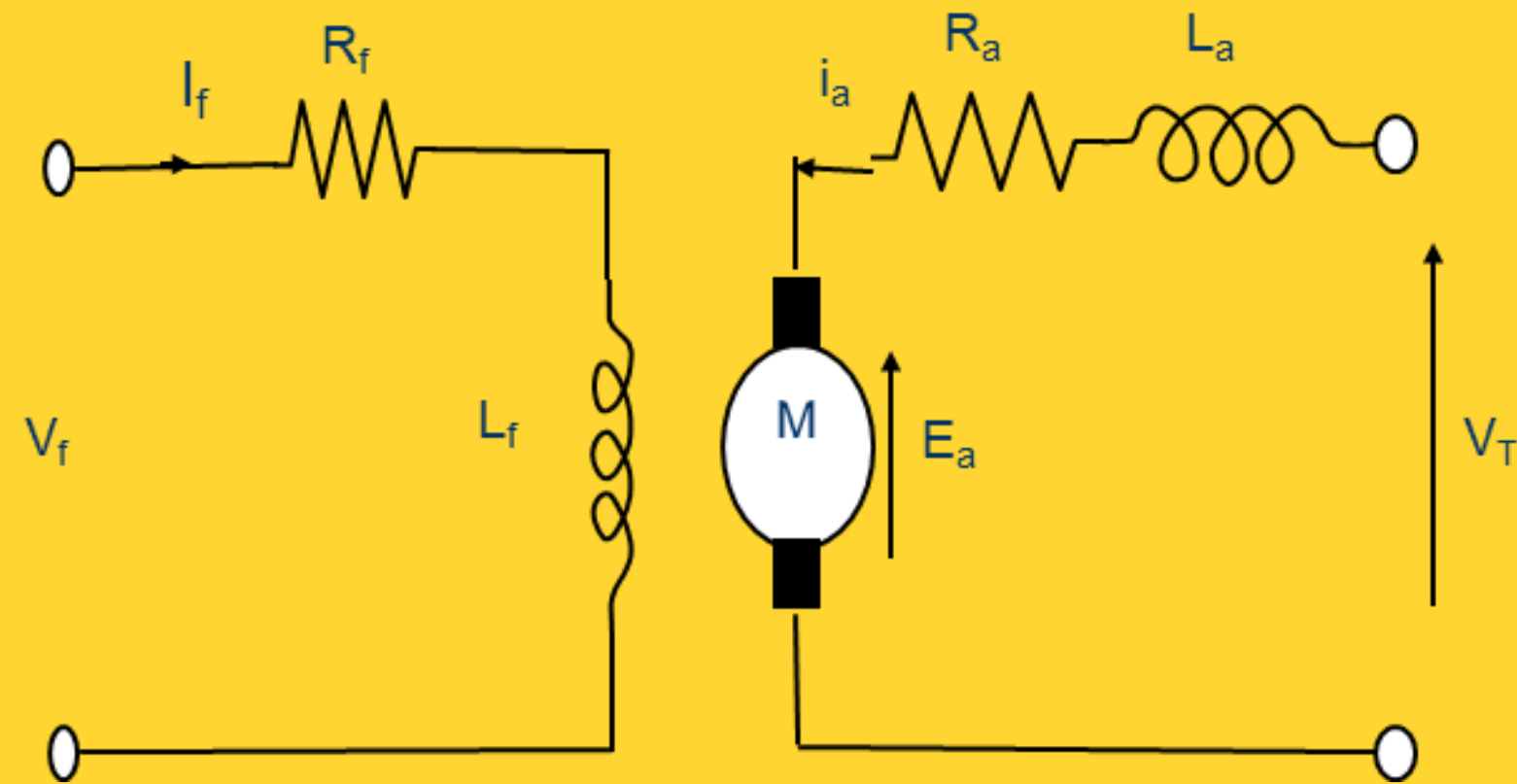


Types of DC Motor





Separately Excited DC Motor



$$V_f = i_f R_f$$

$$V_T = E_a + i_a R_a$$

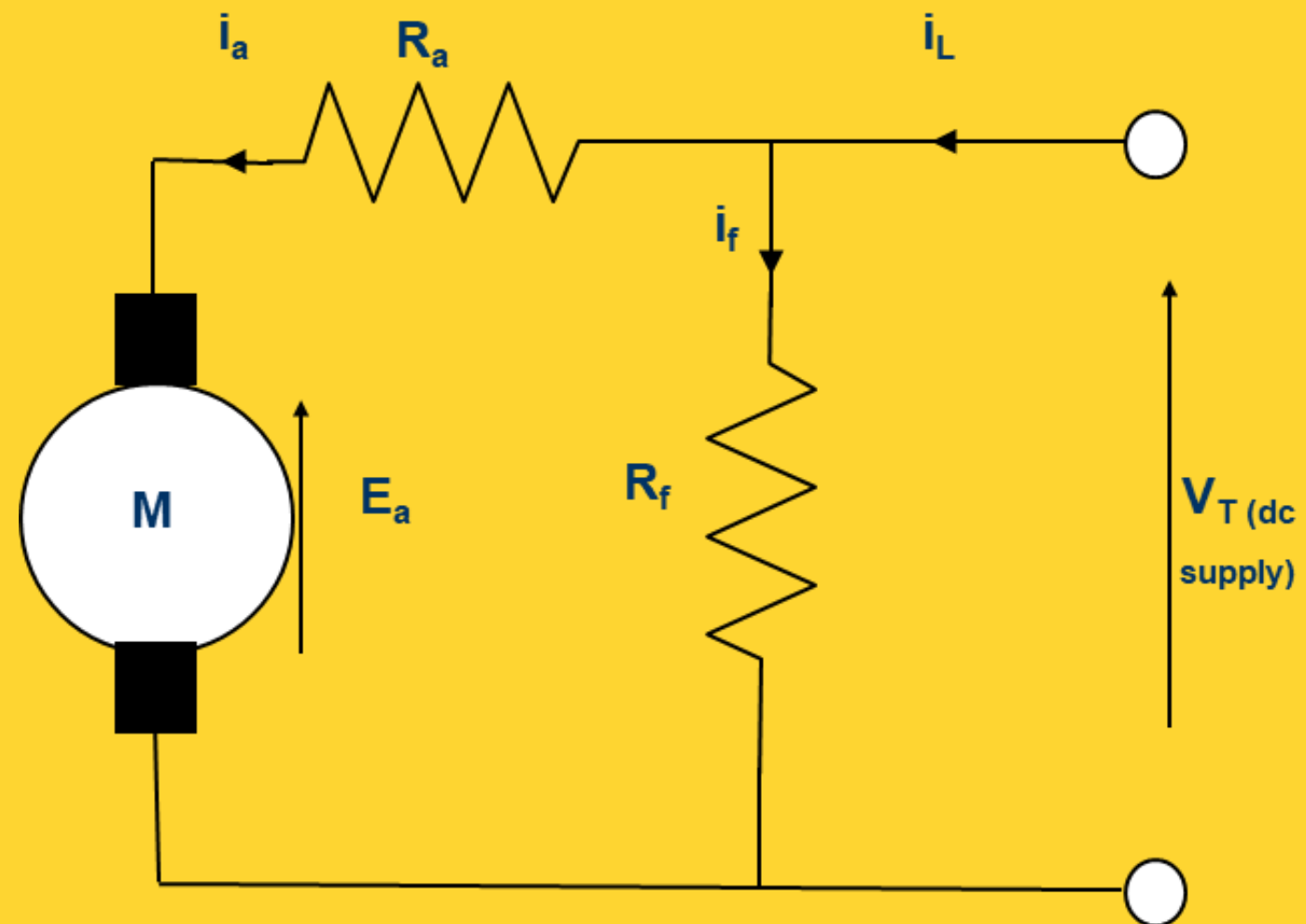




Self Excited DC Motor

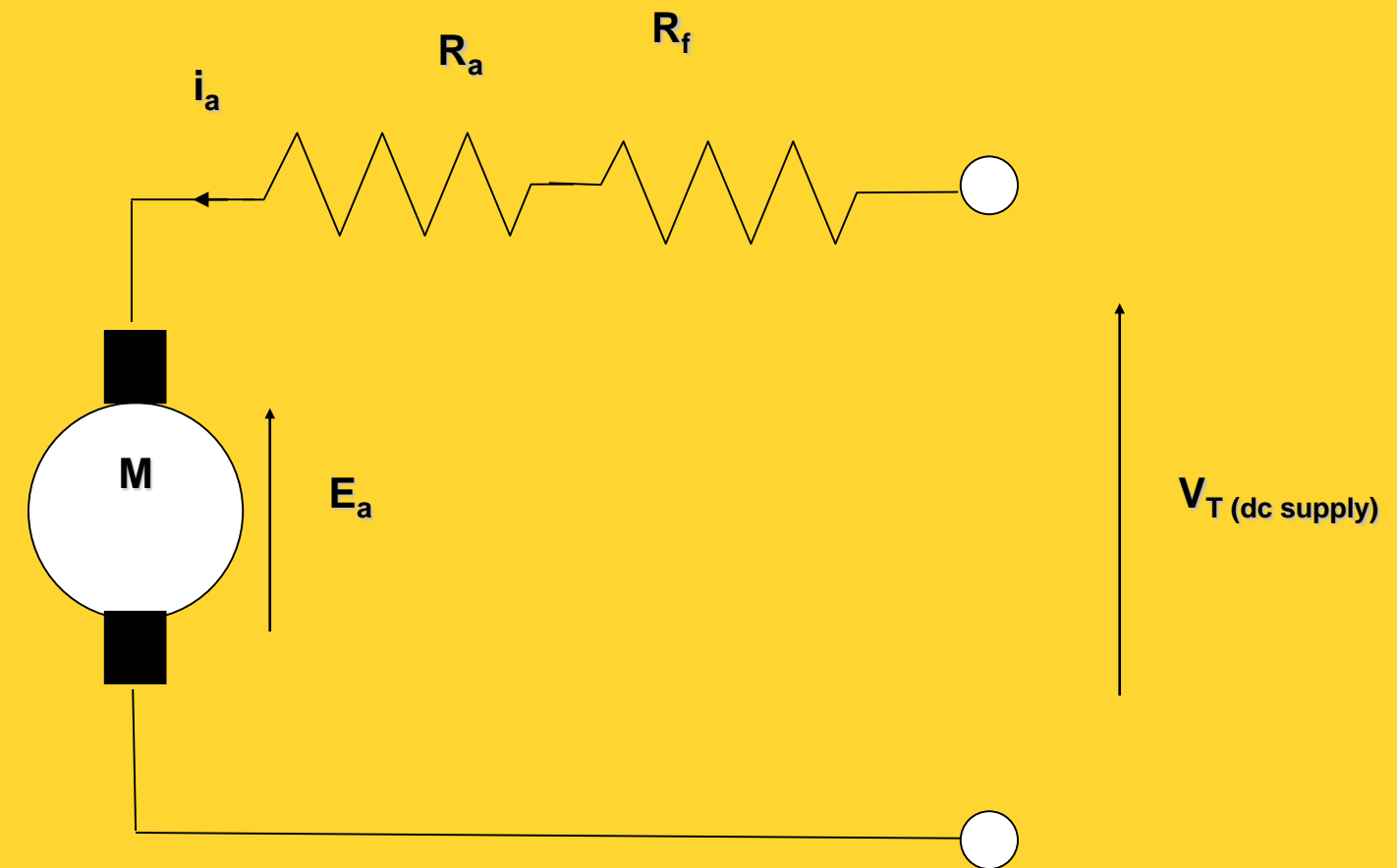


DC Shunt Motor



$$V_T = E_a + i_a (R_a)$$

DC Series Motor



$$V_T = E_a + i_a (R_a + R_f)$$

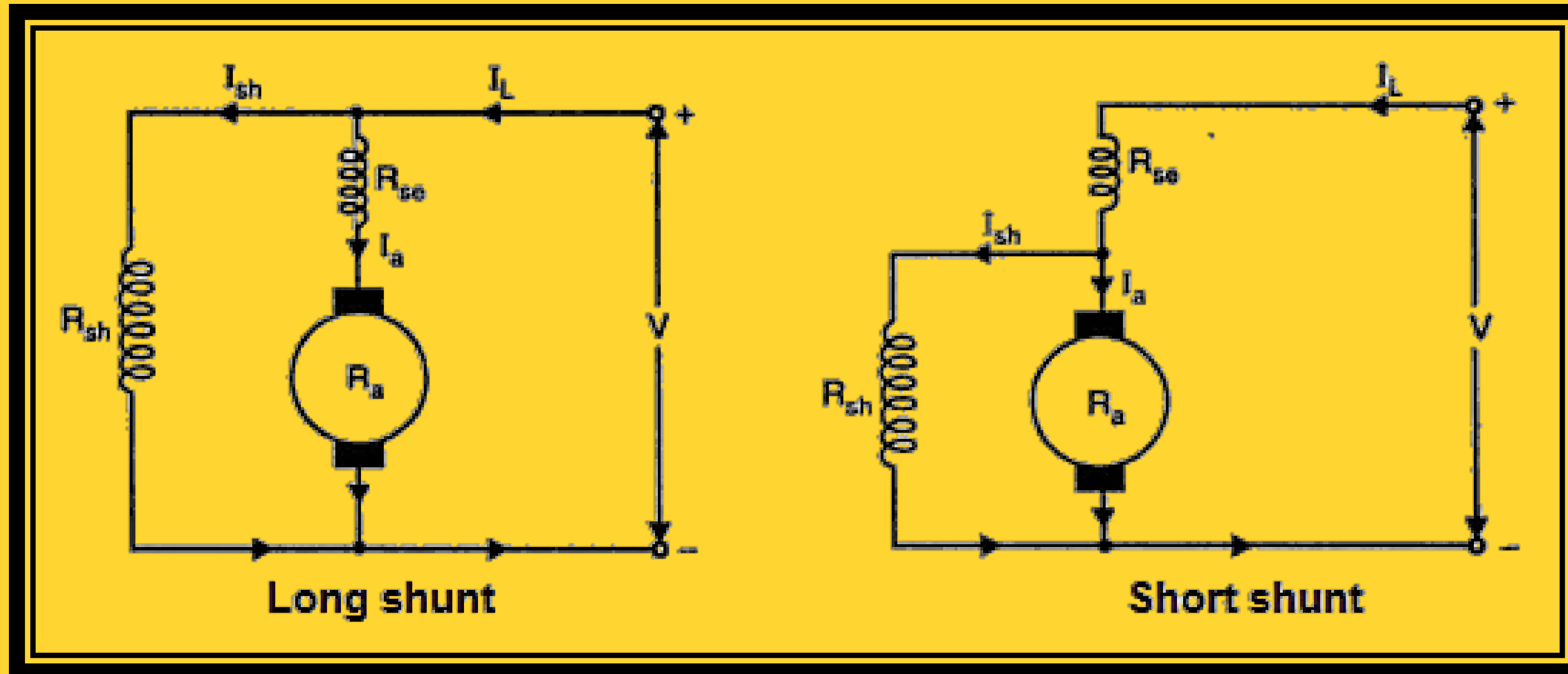




Self Excited DC Motor



DC Compound Motor

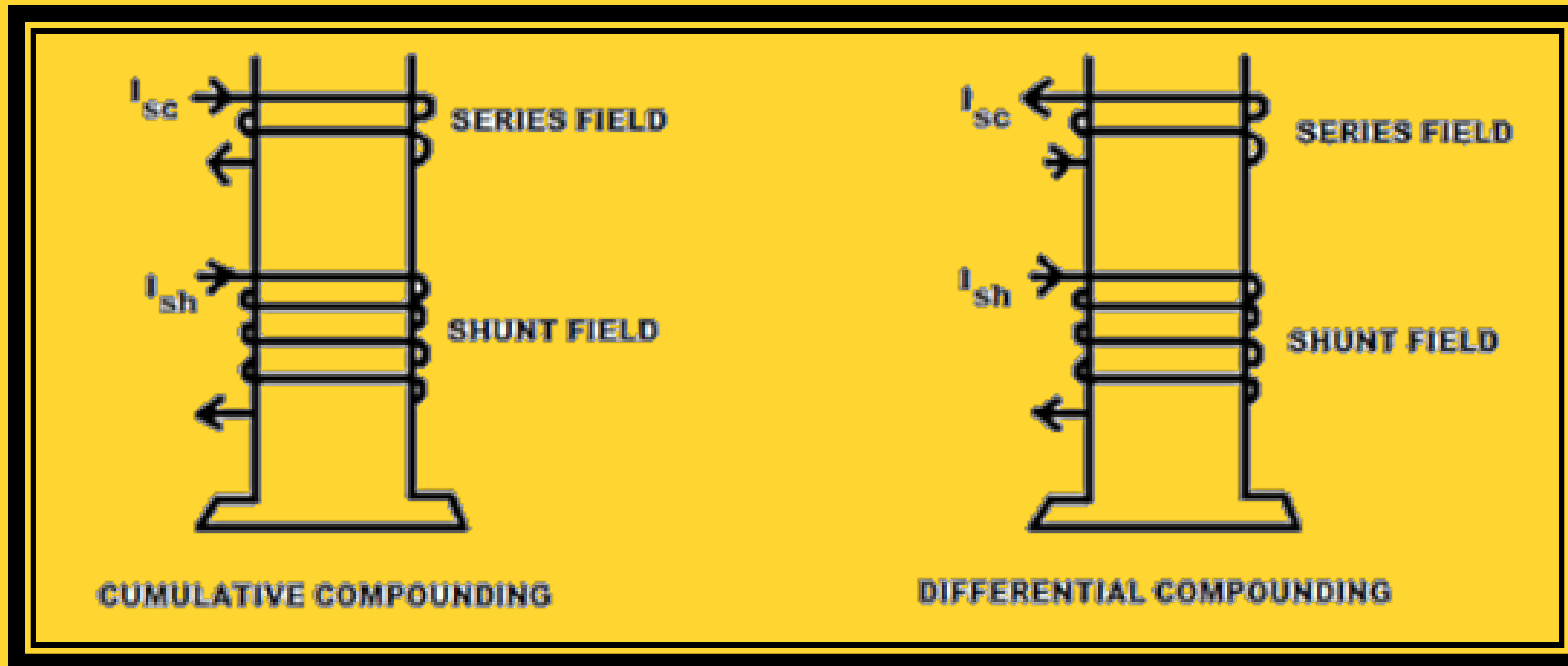




Self Excited DC Motor



DC Compound Motor





RECALL



1. List the classification of DC Motor



THANK YOU