

# **SNS COLLEGE OF ENGINEERING**

Kurumbapalayam (Po), Coimbatore - 641 107



### AN AUTONOMOUS INSTITUTION

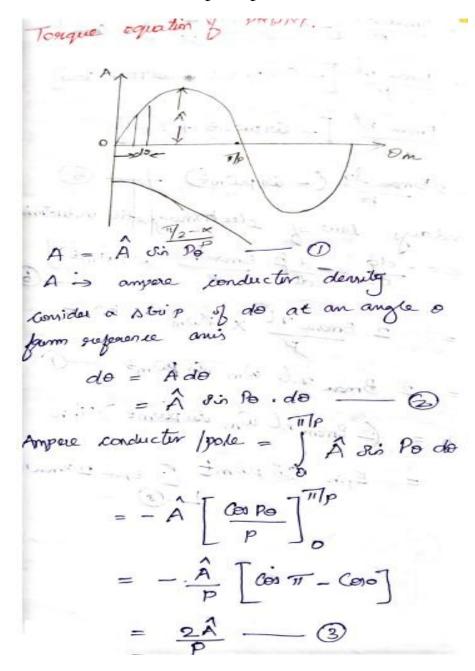
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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

#### UNIT-2

#### PERMANENT MAGNET SYNCHRONOUS MOTOR

#### TORQUE EQUATION



placed by an angle of (tr/2 -x) B = Bman . Pin [ PO+(1/2- ~)] = Bmax din [ = + (18- a)] = Bman (80 [10-x]: sin(90+0)= B = B man cos [po-x] - 4 different is anyw dF = BLA.do dE = Bron (0) [po-a] l A Sin Po. do  $dF = A_{man} R_{mon} l \sin p_{\theta} \cdot cos(p_{\theta} - \infty) \cdot ds$  LG  $dT = dF \times r$ dT = Amon Bron Th . Sin Po . Cos (Po-a).do Torque enjacrienned pool = T/pole = ) dt = Tilp Arran Brown ol sin B. (60 (10-02). 50A GOB = 1 [Sin (A+B) + Jin (A-B)]