3/9/24, 12:32 PM OneNote

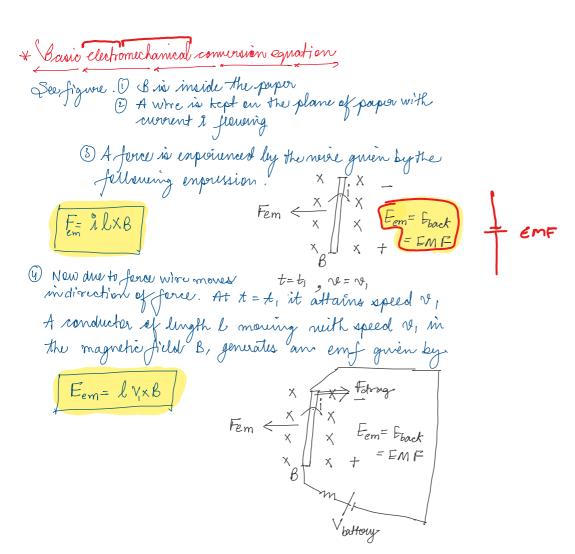
Lecture 15

Wednesday, 6 March 2024 4:05 PM

EE114 - Power Engineering 1

Course instructor: Prof. Sandeep Anand

Scribe: Saurabh Singh

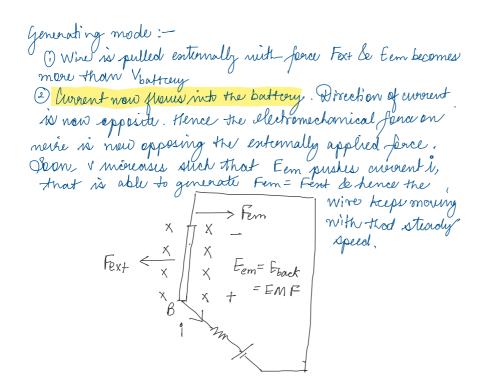


(S) Sock emf as shoven in figure increases as the speed increases. The emf opposes the flow of current.

Ourself reduces. Force en vivre reduces. The acceleration of wire reduces. Soon the Fem becomes equal to Vattory Current becomes zero, force becomes zero, viore moves at steady state at

V= Vattory

D 2



Field nimbing (aka stator nimbing)

Airgap - distance by Stator & rotor

Chae

Those Stator & rotor

Those Sta

Would there be core loss in rotor if it is rotating. Yes.

Cominations for orotor are necessary. Not for stator

Consider figure. Wire next awarent is as shown is kept between N pole se S pole and is made to rotate at constant to The moulting electromechanical torque & back emf in where.