30.11. A rectangular coil of N turns and of length a and with is

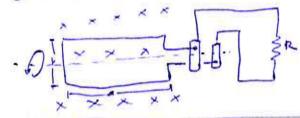
is Rotated at a frequency of in a uniform repetic feld B.

The coil is connected to convoluting cylinders, appoint which metal brushes office to make contact.

a) Show that the end indued on the cil is press by

E = 277 f Nale su (277 ft) = E, su (277 ft)

by What value of Nat pres an end in 6=1500 when the lap is related at 60.0 veu/s in a -for my.



Cos 0 = Sm(0+I)

By = BACOSO (BASMO, BACO(0,4))

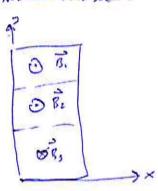
0 = wt = 2 Teft A=ab

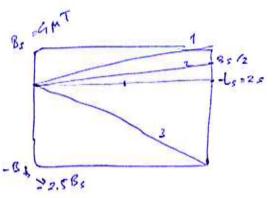
E = - N d(BAC-00) = - NEA d CONDATE = NBab 271 f sa (271fc)

E= 2T FNaLB

1). f. 60 m/s, B=0.5T x Nab = 1500 = 0.996 m

Rectongular a (N=20cm/H=30cm) resistance





B1 / B2 X B1

$$e = -2 \frac{dD_3}{dt} = A \left(\frac{dR_3}{dt} - \frac{dR_1}{dt} - \frac{dR_3}{dt} \right)$$

= (0.12) (0.2-) (2x10° T/s+1x10° T/s- (x10° T/s)