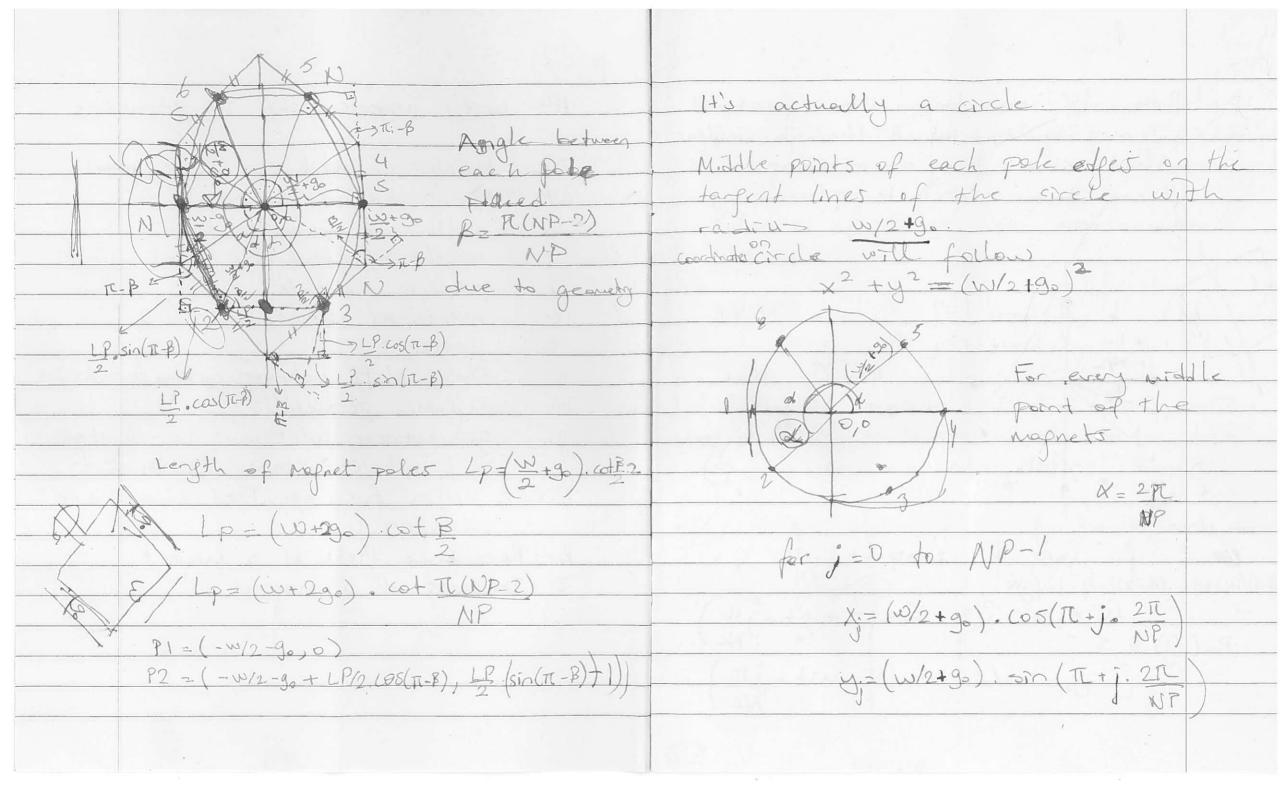
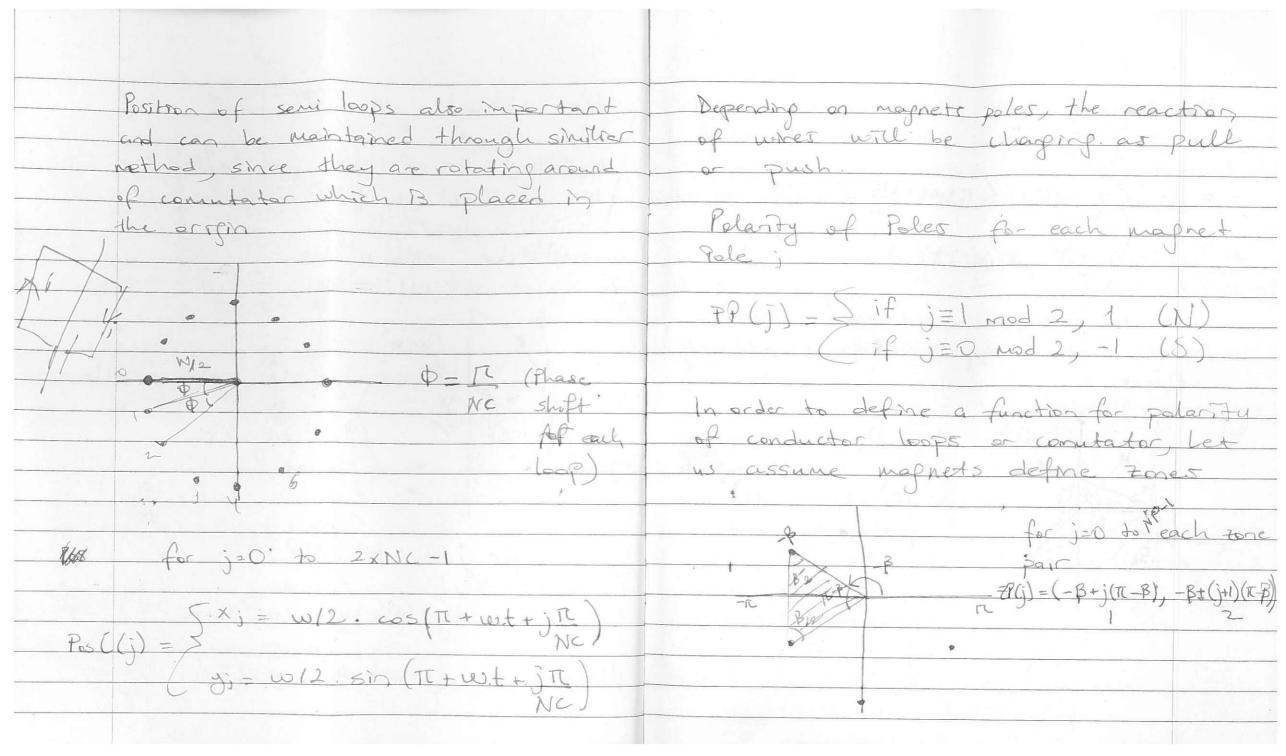
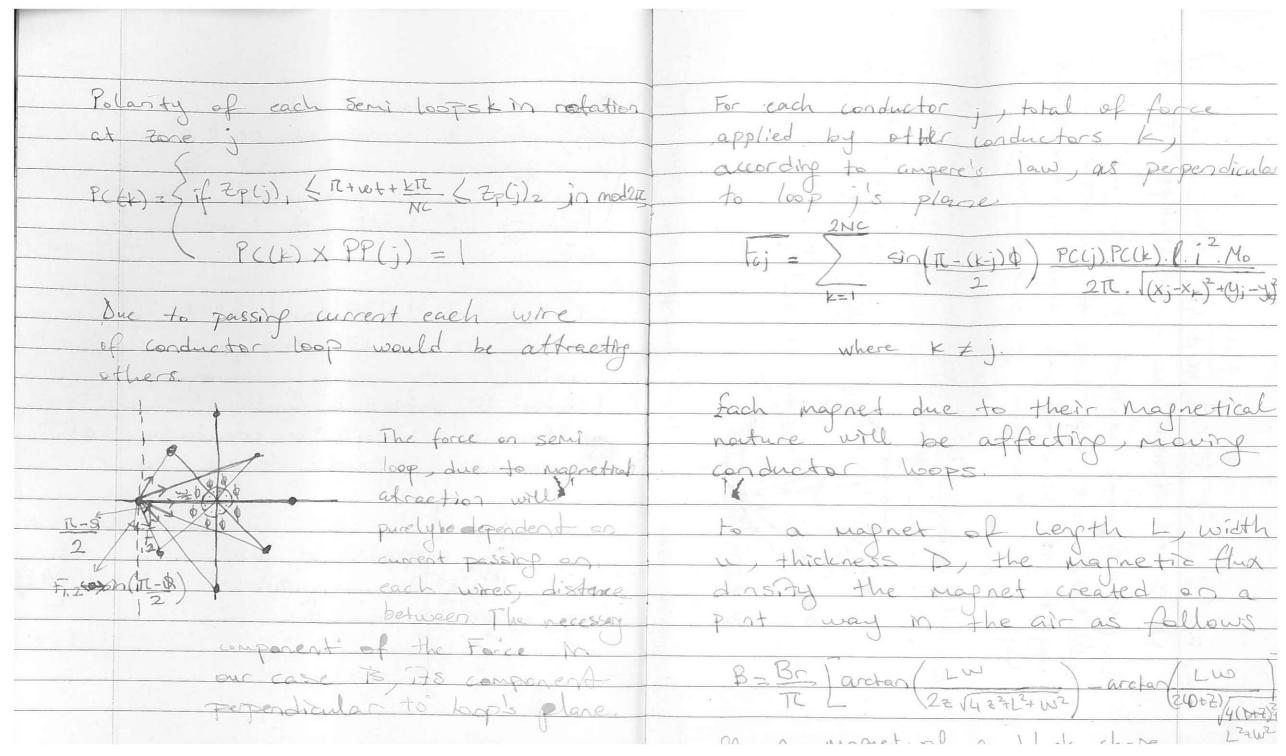
It's mostly dependent of the geometry NC: Number of conductor looper () NP: Number of poles (even). w: width of conductor loops. 1: leighte of conductor loops i passing current

e : rotational velocity " 1: Phase shift between conductor loops No: magnetic permebility go: gap between poles and conductor D(0,0): Origin for specified coordinate Br: Remenence field of a magnet T: Thickness of a magnet





Depending on magnets poles, the reaction of whet will be charging as pull Polarity of Poleo For each magnet if j=1 mod 2,
if j=0 mod 2, to define a function for polarity ZP(j)=(B+T+j(T-B),B+T+(j+1)(R-B)



2(D+2) \ 4(D+2)2+12+W2 B-Brarctan (LW) ardan Length of each report is uniformal and calculated as LP. Let's assume width of our magnets is as much as length of our conductor Thickness of our magnets is T. B=Br [arctan | P | - arctan (QLP) - 2(+2) 4(D+2)+12+12) For calculation of twe could use our position functions. j=0 to 2NC-1 angular position of each conductor T+ w+ jt Then angular position of perpendicule plane of each loop T- 1 + w+ +) T- = 1 + w+ +) Tand slope of perpendicular plane of each $M_1 = +an\left(\frac{TL}{2} + \omega + \frac{1}{2}\frac{TL}{N_1C}\right)$ Slope of force vectors created by magnetical field of each magnet to on each loop; Angle of forces to Ferpendicular plane is = arctan (M-m2 1+M, m2

by magnetok perpendicular to conduce applied by Fm = 21. C. PPUD. BCG). SAS Q. Br. Carcton (2. VX-x) (12) . (4244) - (2) arctar (2 (++Z) (4(+1)+L)+(2) Total Force generated by DC motor is > Fcj + Fmj