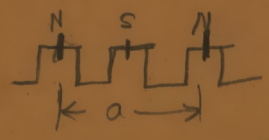
Design of Induction Pendulum

Written About 1930 by JRG

Pole velocity = af.

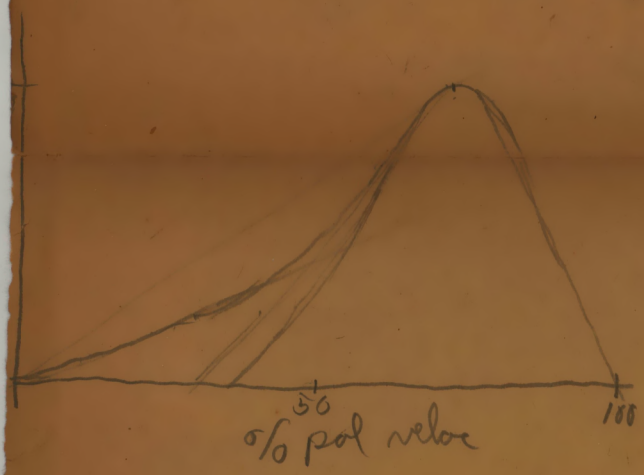


Assume rotor vel to be .7 of pol vel for max force. $f = 60$, $a = \frac{1}{2}''$

So maximum rotor speed would be 21 in/sec

$v = \sqrt{2gh} = \sqrt{64 \cdot h} = \frac{21}{12} = ?$ $h = \cancel{\frac{1}{6}}' = .7$ in

Let length = 40"; angle of swing = $2 \arccos \frac{39.2}{40} = 2 \arccos .98 = 23°$

Let a = .6" p. vel = 36" = 3' ~~2.1~~ vel = 2.1' h = .8

Let l = 20" angle of ~~swing~~ swing = 32°