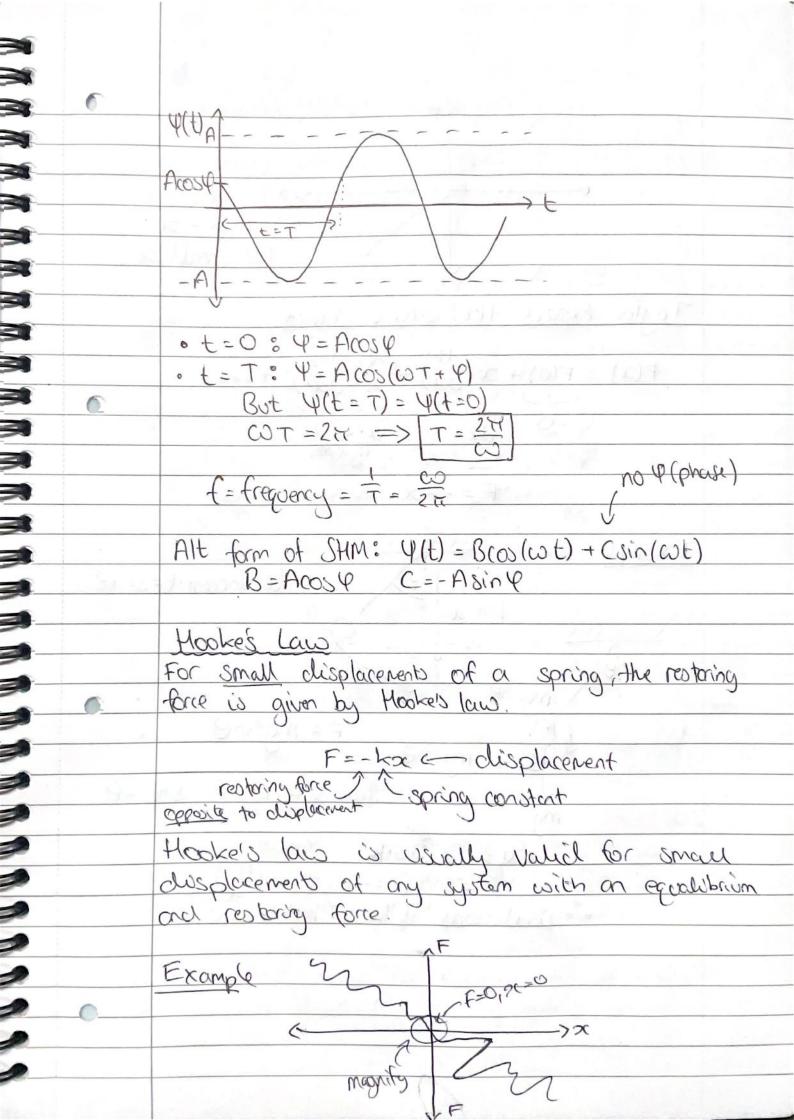
Oscillations and Waves 1 Mass on spring: - O displace displacement -s release -omass moves to egm, overshoots spring compresses obsplacement £ 000000 osallation An egoaldiscaia has 3 components: -Degualibrium - a displacement -is restoring force A simple oscillation is when the displacement sinuspidal function of t. 4(t) = Acos (cot + Ø) Tohase displacement amplitude argular



FX-DC for small or Taylor Exposel flow about origin  $F(\alpha) = F(0) + \alpha \left(\frac{dF}{d\alpha}\right)$ F = - koc Example displacement = s=10 Onizon. mg cose F=mg 0 =-mg = -(mg) S hookes law