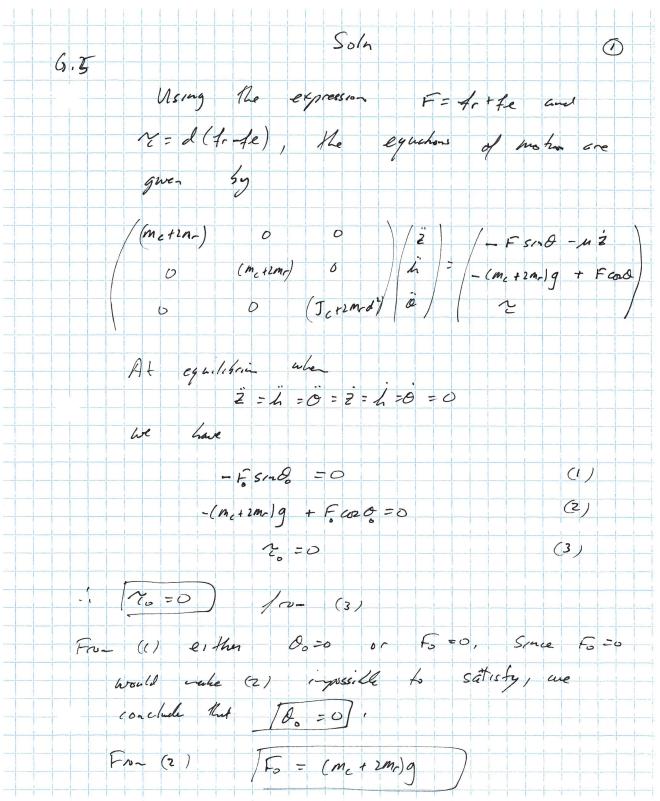
Homework G.5 - Solution



50/4 6,5 linearize, let $\tilde{Q} = Q - Q_0 \qquad \Rightarrow Q = Q_0 + \tilde{Q}$ $\tilde{C} = F - F_0 \qquad \Rightarrow \tilde{F} = F_0 + \tilde{F}$ we also have FSIND & F. SIND + 2 (FSIND) F + 2 (FSIND) O = Fo 51000 + 5100 F + For 00 0 $= F_0 \tilde{\theta}$ F 40 0 2 F. con d. + 3 (Fcon 0) = + 3 (Fcon 0) 0 = F. coo. + co. 8. F - F. sind o linewised equations of make are therefore (mc + 2mr) = - F. 0 - uz (ne+2A-) h = - (me+2m) g + Fo + F = F (J . + 2m - d') 0 = 2 Noting that $\tilde{\mathcal{G}} = \partial - \partial_0 = \partial$ we write

