L'inearization

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AE 353 Spring ZOZ3 Bretl



WHEEL

(J+mr2) = 7 - mgr sin g - ci = 7 - c2 sin g

STEP 1 - rewrite as a set of first-order ODEs

6 - find time derivative of g of highest order

V= g derivative of q with lower order

CIV = T - CZ sin q < rewrite ODE in terms of new variables

9 = V (- add an ODE for each lower-order derivative of 9

 $\dot{q} = V$ $\dot{v} = (T - c_2 \sin q)/c_1$ time derivatives if necessary







STEP Z - find an equilibrium point













STEP 4 - compute A and B

