

OYUGBO ESEOSE V

17/ENG06/072

MECHANICAL ENGINEERING

ENG 382

command window

clear

clc

format short

m = 3.5;

v = 0.5;

D = 9.8;

F = m * g

v = sqrt((((F + (0.02 * v)) * (log(v) ^ 3)) + (10 * v) + 17150) / 0.3);

for i = 1 : inf

 i = i + 1;

 v(i) = sqrt((((F + (0.02 * v(i))) * (log(v(i)) ^ 3)) + (10 * v(i)) + 17150) / 0.3);

 Er(i) = abs(((v(i) - v(i-1)) / v(i)) * 100);

 if Er(i) <= 1e-11

 break

 end

end

Tablout = table('Iter', v', Er')