

# EE 432-1, Digital Control Systems, Quiz-6

Monday, January 14, 2008, Dr. Ahmad A. Masoud

The weight of the this quiz will be considered as two quizzes:

write the answer on the questions paper

1- use the Jury test to determine the stability of the system with characteristic equation shown below:

$$D(Z) = Z^4 + 3.2 \cdot Z^3 + 3.84 \cdot Z^2 + 2.048 \cdot Z + 0.4096,$$

2- use the modified Routh-Horowitz test to judge the stability of the system with characteristic equation:

$$D(Z) = Z^2 + 1.6 \cdot Z + 0.64,$$