Assignment 06

The due date for submitting this assignment has passed.

As an alternative, you can submit this assignment.

1. Consider the following SISO model:

   The model represents a system operating in steady-state with a second order accumulator. The system dynamics are described by a transfer function determined by the plant's characteristics.

   The initial system state with initial condition (initial state of the plant) is as follows: A(0) = 1, B(0) = 2, C(0) = 3, D(0) = 4.

   The system is subjected to an input signal (input to the system) that consists of a step change of 5 units at time t = 0.

   An analysis of the system's response using the Laplace Transform approach reveals that:

   a) The system's output response is:

   b) The steady-state error is:

   c) The transient response is:

   d) The system's stability can be determined by:

   e) The system's frequency response is:

   f) The system's time response is:

   g) The system's poles are:

   h) The system's zeros are:

   i) The system's gain is:

   j) The system's phase is:

   k) The system's steady-state error is:

   l) The system's transient response is:

   m) The system's poles are:

   n) The system's zeros are:

   o) The system's gain is:

   p) The system's phase is:

   q) The system's steady-state error is:

   r) The system's transient response is:

   s) The system's poles are:

   t) The system's zeros are:

   u) The system's gain is:

   v) The system's phase is:

   w) The system's steady-state error is:

   x) The system's transient response is:

   y) The system's poles are:

   z) The system's zeros are:

   aa) The system's gain is:

   bb) The system's phase is:

   cc) The system's steady-state error is:

   dd) The system's transient response is:

   ee) The system's poles are:

   ff) The system's zeros are:

   gg) The system's gain is:

   hh) The system's phase is:

   ii) The system's steady-state error is:

   jj) The system's transient response is:

   kk) The system's poles are:

   ll) The system's zeros are:

   mm) The system's gain is:

   nn) The system's phase is:

   oo) The system's steady-state error is:

   pp) The system's transient response is:

   qq) The system's poles are:

   rr) The system's zeros are:

   ss) The system's gain is:

   tt) The system's phase is:

   uu) The system's steady-state error is:

   vv) The system's transient response is:

   ww) The system's poles are:

   xx) The system's zeros are:

   yy) The system's gain is:

   zz) The system's phase is:

   aa) The system's steady-state error is:

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   cc) The system's poles are:

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