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dt C. where $\tau = RC$ is the fluid time constant for the tank. The solution of this equation is $h(t) = (h(0) - q_i / q) e^{-t/\tau} + q_i / q$. Let q_i be constant over each sampling period T , i.e. $q_i(t) = q_i(k) = \text{constant}$, for t in the interval $[kT, (k+1)T)$.

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Digital Control Engineering

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(a) Obtain the hold equivalent digital filter for the PD, PI, and PID controllers. Modify the results as necessary to obtain a realizable filter with finite frequency response at the folding

Chapter 6 Solutions 6.1 K (i) Gz () (ii) Gz () Fadali ...

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b) Find the pole in the imaginary axis transforms into a pole of on the unit circle.. For a continuous time system, implies critical stability. Use the exact transformation: Where, z is a complex.. s is the digital equivalent of the analog.. T is sampling time.. Write the general formula: (2) Calculate the value of the magnitude of z in Equation (2):. From the fourth quadrant in Figure (1):

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