System Simulation HW Problem #2 $H(s) = \frac{X_s(s)}{W_{gp}(s)} = \frac{50e^{0.015s}}{S+2+50e^{0.02s}}$ $H(S) = \frac{50(-S^2 + 33.33335 + 133333.3)}{S^3 + 185.3332^2 + 12133.35 + 6433333}$ $H(s) = 50(-1 + \frac{33.3333}{52} + \frac{13333.3}{53})$ + 185,333 + 12133.3 + 693333 $+ \frac{185.333T}{2^{-1}} + \frac{12133.3T^{2}}{(2^{-1})^{2}} + \frac{693333T^{3}(2^{2}+2)}{2(2^{-1})^{3}}$ ((2-1)3 + 185333T (2-1)2 + 12133.3T2 (2-1) + 69833T3(232) $H(z) = 50(-T(z^2-2z+1)+33.3337^2(z^2-z)+6666.657^3(z^2+z)$ 1 23-322+32-1)+185.333T (22-22+1)+12133.3T222-2)+34666.5T3(22+2) 50 (22 (666.65 T3 + 33.3333 + 2 - T) + 2 (666.65 T3-33.3335 T2 + 2T) - T) 23 + 22 (34666.5 + 12133.3+2+185.335T-3) + 2 (3466.5+3-12133.3+2-370.67T+3)+(185.353T-1) (H(z)= 50(z2(A) + Z(B) + C) 50(=(A)+==(B)+==(1) 23 + 22(D) + 2(E) + F. 1 + 当(0)+ 宝(日)+宝(片) Y(n) + Y(n-1)(0) + Y(n-2)(E) + Y(n-3)(F) = 50(x(n-1)/A)+X(n-2)(B)+X(N-3)(C)) YEN] = 50(X[N-1] (A) + XEN-2] (B) + XEN-3] (C) - YEN-3](F) - YEN-2](E) - YEN-1](D)

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