```
% plot_nonlinear_vs_linear.m
% This file plots the results from the simulation
% of reactor_nonlinear_vs_linear_model_simulation.mdl model
close all;
clc;
% C_A_ss = 1.6329*ones(length(tout),1);
% C B ss = 1.1101*ones(length(tout),1);
T_R_s = 398.6581 * ones(length(tout),1);
% T_J_ss = 397.3736*ones(length(tout),1);
% figure(1);
% subplot(2,1,1)
% plot(tout, l_C_A, 'b', tout, nl_C_A, 'r', tout, C_A_ss, 'g');
% xlabel('Time [s]');
% ylabel('C_A [kmol / m3]');
% legend('Linear', 'Non-Linear', 'Steady-State');
% subplot(2,1,2)
% plot(tout, l_C_B, 'b', tout, nl_C_B, 'r', tout, C_B_ss, 'g');
% xlabel('Time [s]');
% ylabel('C_B [kmol / m3]');
% legend('Linear', 'Non-Linear', 'Steady-State');
% figure(2)
% subplot(2,1,1)
% plot(tout, l_T_R, 'b', tout, nl_T_R, 'r', tout, T_R_ss, 'g');
% xlabel('Time [s]');
% ylabel('T_R [K]');
% legend('Linear', 'Non-Linear', 'Steady-State');
% subplot(2,1,2)
% plot(tout, l_T_J, 'b', tout, nl_T_J, 'r', tout, T_J_ss, 'g');
% xlabel('Time [s]');
% ylabel('T_J [K]');
% legend('Linear', 'Non-Linear', 'Steady-State');
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