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% Nominal Mu Design
% Use h2opt to compute an  $H_2$  controller for each value of the bending factor  $\beta$ 

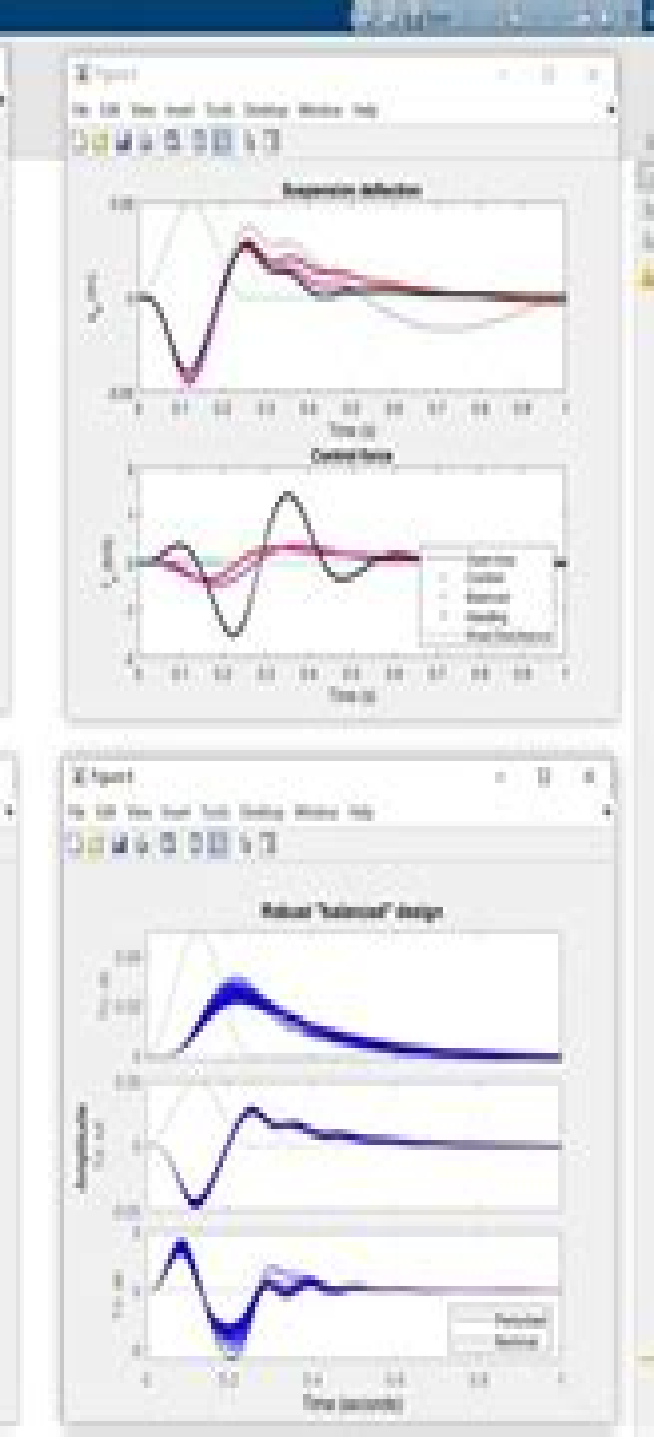
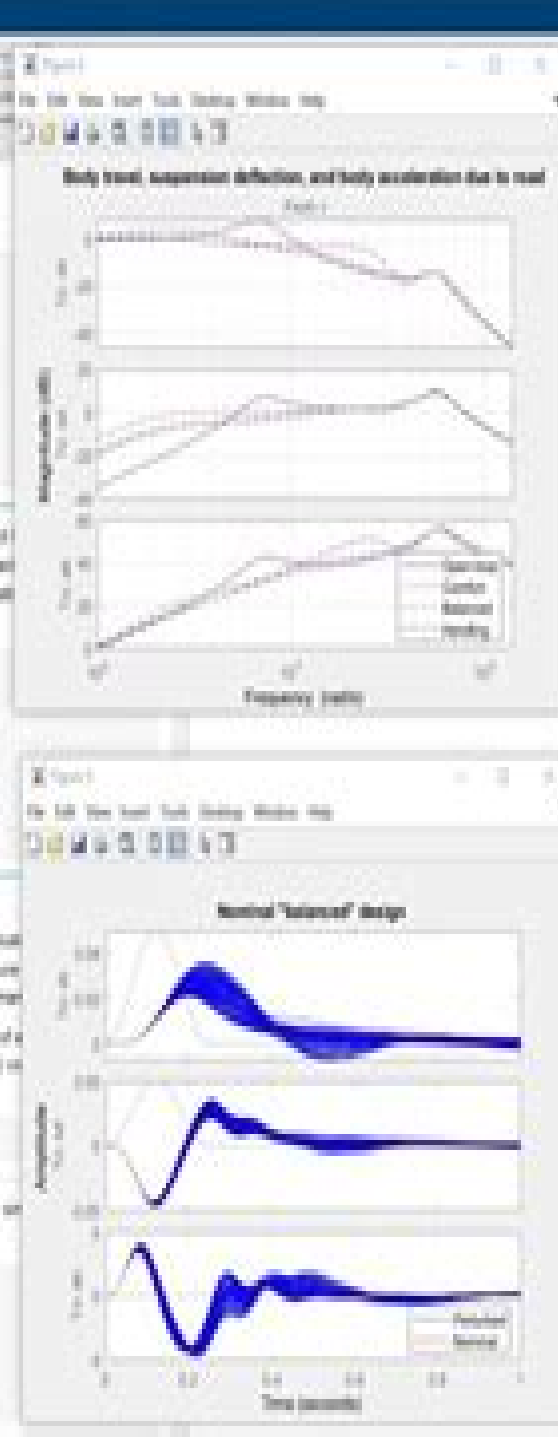
% Create a 2x2 SISO control signal,  $u$ 
% Create a 2x2 SISO measurement signal,  $y$  and  $z$ 
%  $\beta$  = vector of bending factors, 0.0, 0.01, 0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10
%  $\beta$  = 0.0
%  $\beta$  = 0.01
%  $\beta$  = 0.02
%  $\beta$  = 0.03
%  $\beta$  = 0.04
%  $\beta$  = 0.05
%  $\beta$  = 0.06
%  $\beta$  = 0.07
%  $\beta$  = 0.08
%  $\beta$  = 0.09
%  $\beta$  = 0.10

% The three controllers achieve closed-loop  $H_2$  norms of 0.04, 0.07 and 0.09, respectively. (Control
% closed-loop models and compare the gains from road disturbance to  $z_1, z_2, z_3$  for the passive and active
% Show that all three controllers reduce suspension deflection and body acceleration below the set
% points.

% 1. Closed-loop model
%  $\beta$  = 0.0
%  $\beta$  = 0.01
%  $\beta$  = 0.02
%  $\beta$  = 0.03
%  $\beta$  = 0.04
%  $\beta$  = 0.05
%  $\beta$  = 0.06
%  $\beta$  = 0.07
%  $\beta$  = 0.08
%  $\beta$  = 0.09
%  $\beta$  = 0.10

% Legend: 'Passive', 'Control', 'Reference', 'Road', 'Body', 'Suspension'
% (z1, z2, z3) = body travel, suspension deflection, and body acceleration due to road

```



```

% Robust Mu Design
% So far you have designed  $H_2$  controllers that meet the performance objectives for the nominal vehicle
% dynamic model. The model is only an approximation of the true vehicle and you need to make sure
% performance is maintained in the face of model errors and uncertainties. This is called robust performance.
% First use  $\mu$ -synthesis to design a controller that achieves robust performance for the entire family of  $\beta$ 
% robust controllers is synthesized with the  $\mu$ -synthesis using the standard model  $(z_1, z_2, z_3)$  as
% "balanced" performance ( $\beta = 0.0$ ).

% (z1, z2, z3) = body travel, suspension deflection, and body acceleration due to road

% Synthesize the nominal response to a road bump with the robust controller  $\mu$ -syn. The responses are an
% obtained with the "balanced"  $H_2$  controller.

% 1. Closed-loop model (nominal)
%  $\beta$  = 0.0
%  $\beta$  = 0.01
%  $\beta$  = 0.02
%  $\beta$  = 0.03
%  $\beta$  = 0.04
%  $\beta$  = 0.05
%  $\beta$  = 0.06
%  $\beta$  = 0.07
%  $\beta$  = 0.08
%  $\beta$  = 0.09
%  $\beta$  = 0.10

% 2. Synthesize
% of a balanced  $H_2$  controller

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