```
simulation_time = 8;
sim\_step = 0.0001;
for i = 1:1
    try
        model = 'closed_loop_model.slx';
        G = G1(i);
        fig = figure();
        subplot(3,1,1);
        step(G,8);
        grid on;
        [ctr,info]=pidtune(G,'pid');
        cmd_sys=feedback(ctr*G,1)
        subplot(3,1,2);
        step(cmd_sys,8);
        [t,x]=sim(model);
        subplot(3,1,3);
        plot(sp, 'r');
        hold on;
        plot(control, 'g');
        hold on;
        plot(pv, 'b');
        grid on;
        ylabel('Amplitude');
        xlabel('Time (seconds)');
%
          model = 'closed_loop_model.slx';
%
          hold on;
%
          sim(model);
%
          plot(sp.Data, 'r', 'LineWidth', 2);
응
          hold on;
응
          plot(control.Data, 'g','LineWidth',2);
응
          hold on;
%
          plot(pv.Data, 'b','LineWidth',2);
왕
          grid on;
%
          hold on;
         title(strcat('G1-tf_',int2str(i)));
          file = strcat('G1-tf-', int2str(i));
응
%
          print(fig,file,'-dpng');
%
          close(fig)
    catch ME
        'G1'
        i
    end
end
%wykorzysta# pole(ss)
cmd\_sys =
  a =
           x1
                    x2
```

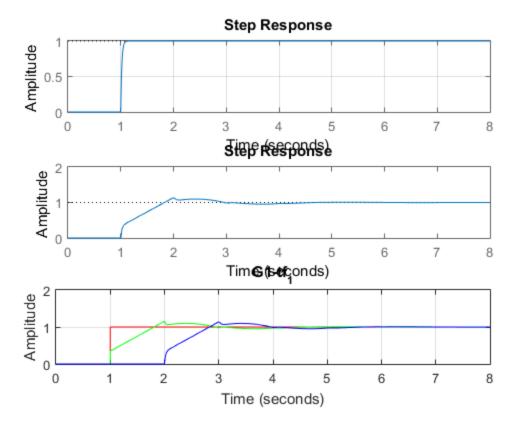
```
x1 -67.36 -40.38
 x2
         1
b =
     и1
 x1
      0
 x2
c =
       x1
              x2
      2.17 5.047
 у1
d =
     u1
 у1
      0
(values computed with all internal delays set to zero)
Internal delays (seconds): 1
```

Continuous-time state-space model.

Warning: The specified buffer for 'closed_loop_model/LTI System/Input Delay/Transport Delay' was too small. During simulation, the buffer size was

temporarily increased to 10240. In order to generate code, you need to update

the buffer size parameter



Published with MATLAB® R2015a