

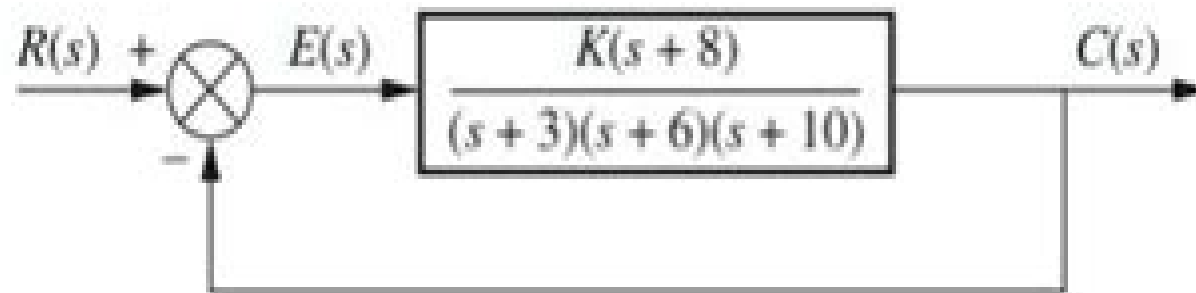
Continuous Time Controller Design

Objectives

Analyzing and troubleshooting skills while designing a controller using MATLAB, Control Systems Toolbox & Simulink.

Task Details

Using resources and background knowledge design a controller $G_C(s)$ (cascaded/parallel) for the system shown below:



the design criteria are:

- Peak time that is two-third that of uncompensated system
- Overshoot 20%
- Zero steady-state error for a step input

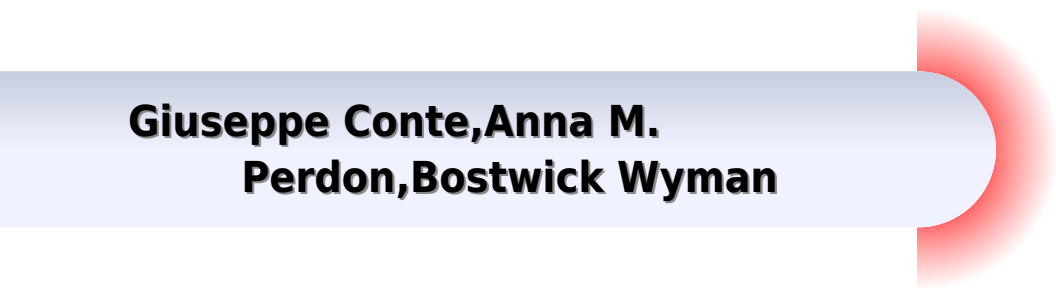
Deliverables

You must submit:

- A MATLAB function (*.m file).
- A Simulink Model file (*.mdl or .slx file).
- Images of the graph plotted using MATLAB & Simulink with analysis (Word file).

Continuous Time Controller Design I E E Control Engineering Series

**Giuseppe Conte, Anna M.
Perdon, Bostwick Wyman**



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Calculate it. 21. Determine the kinetic energy of a 1000-kg roller coaster car that is moving with a speed of 20.0 m/s. 22.
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thrown into the air with an initial velocity of 30 m/sec? $KE = \frac{1}{2} m v^2$ $\frac{1}{2} (1 \text{ kg}) \dots$ Kinetic Energy (KE) = $\frac{1}{2}$ mass times velocity
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