

# EENG307: Systems with Time Delay<sup>1</sup>

## Lecture 33

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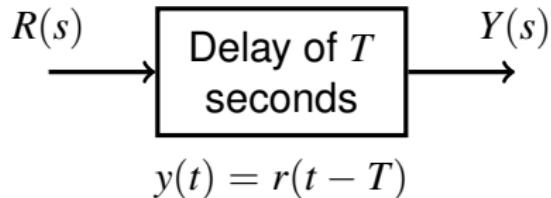
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<sup>2</sup>Developed and edited by Tyrone Vincent and Kathryn Johnson, Colorado School of Mines, with contributions from Salman Mohagheghi, Chris Coulston, Kevin Moore, CSM and Matt Kupilik, University of Alaska, Anchorage



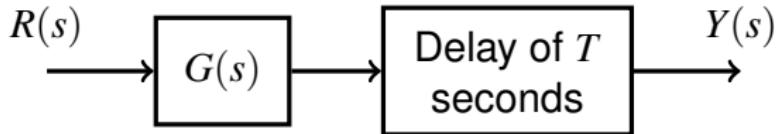
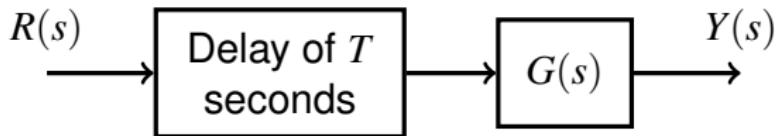
# Transfer Functions for Delay System

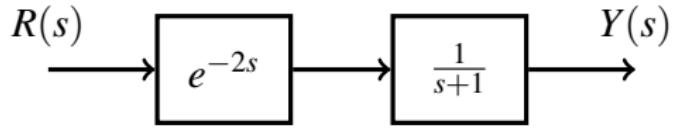
What is the transfer function for this linear system?

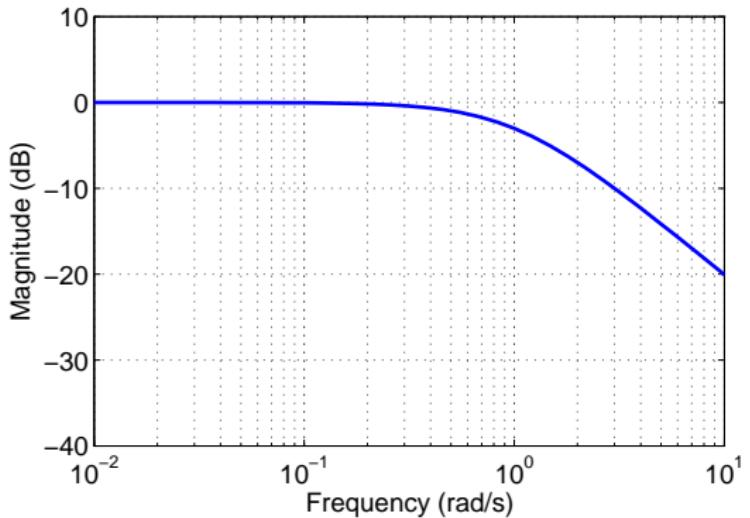


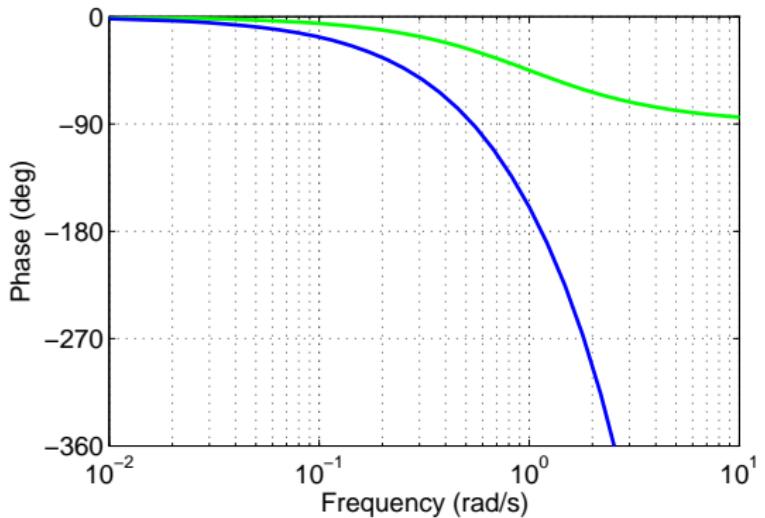
# Systems with Input or Output Delays

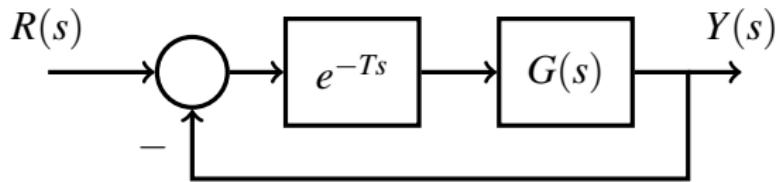
What are the transfer functions for these linear systems?

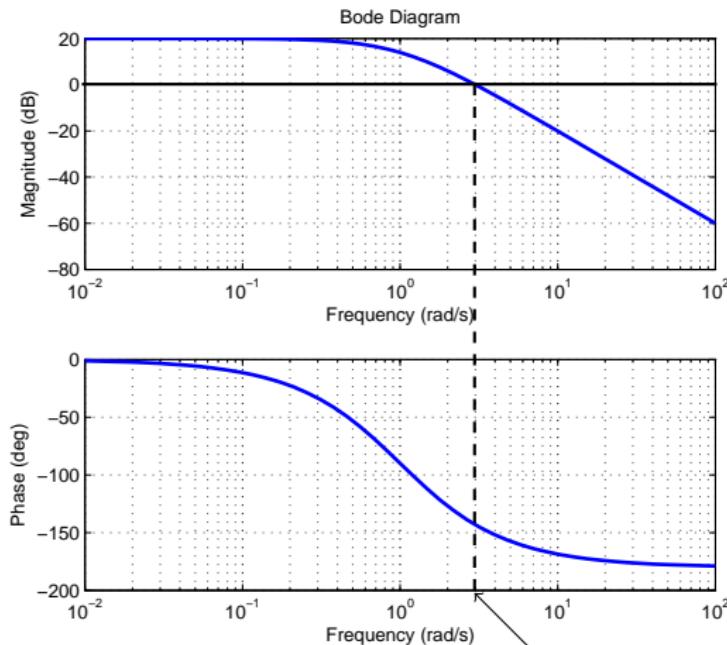












$$\omega_{co} = 3 \text{ rad/s}$$

