Faculty of Electrical Engineering

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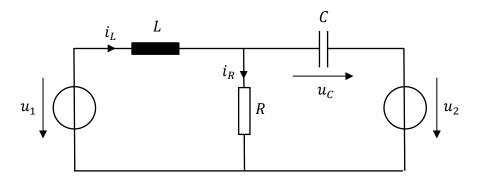


Course "Control Systems 2"

Exercise Sheet 1

Task 1:

An RLC network is shown in the figure below. Define the state variables as $x_1 = i_L$ and $x_2 = u_c$. Moreover, assume that the inputs are the source voltages and that the output is the current through the resistor. Determine the state equations.



IMC 1/1