Identification of Second-Order Systems from Frequency Response Data

In this talk, we present a data-driven approach to identify second-order systems of the form \begin{equation} \begin{array}{rcl} \mathbf{M}\ddot{\mathbf{x}}(t) + \mathbf{D}\dot{\mathbf{x}}(t) + \mathbf{K}\mathbf{x}(t) &=& \mathbf{B}\mathbf{u}(t), \quad \mathbf{x}(t), \quad \mathbf{x}(t) &=& \mathbf{A}(t), \quad \mathbf{x}(t), \\mathbf{x}(t), \\

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