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Fractional-Order Multiple-Input Multiple-Output Control Systems

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Abstract:

Many control processes have to be treated as Multiple-Input Multiple-Output (MIMO) systems. Unfortunately, the interactions among the variables make control of such systems a challenging task. Recently, the fractional-order control systems has gaining a great popularity not only in (still more frequent) SISO applications, but also for MIMO plants. The thesis should be focused on fractional-order MIMO control systems, including various fractional-order synthesis methods, appropriate loop decoupling techniques, software and experimental validation.

Literature:

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