

New Coprime Polynomial Fraction Representation of Transfer Function Matrix.

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Abstract: A new form of the coprime polynomial fraction $C(s)F(s)^{-1}$ of a transfer function matrix $G(s)$ is presented where the polynomial matrices $C(s)$ and $F(s)$ have the form of a matrix (or generalized matrix) polynomials with the structure defined directly by the controllability characteristics of a state-space model and Markov matrices HB, HAB, \dots

Keywords:

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