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The Invariant Polynomial Assignment Problem for Linear Periodic Discrete-Time Systems

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Abstract: This paper considers the problem of assigning the closed loop invariant polynomials of a feedback control system, where the plant is a linear, discrete-time, periodic system. By a matrix algebraic approach, necessary and sufficient conditions for problem solvability are established and a parameterization of all periodic output controllers assigning the desired invariant polynomials is given.

Keywords:

AMS Subject Classification: