

论文

ON ROBUST STABILITY OF POLYNOMIALS AND RELATED TOPICS

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摘要 Complex polynomials are of significance in engineering applications. This paper addresses the robust stability of such polynomials. We first systematically discuss the alternative pair of polynomials and obtain some fundamental results. The geometric characterizations of the family of stable complex polynomials are investigated. Some connections with Sturm chains and conditions for theconvex combination of polynomials to be aperiodic are established.

关键词 [Robust stability,complex polynomials,Kha](#)

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Key words [Robust stability](#) [complex polynomials](#) [Kharitonov's theorem](#) [convex combination](#)

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