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An Algorithm for Stability Determination of Two-Dimensional Delta-Operator Formulated Discrete-Time Systems

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Abstract. The recent interest in delta-operator (or, δ -operator) formulated discrete-time systems (or, δ -systems) is due mainly to (a) their superior finite wordlength characteristics as compared to their more conventional shift-operator (or, z -operator) counterparts (or, z -systems), and (b) the possibility of a more unified treatment of both continuous- and discrete-time systems. With such advantages, design, analysis, and implementation of two-dimensional (2-D) discrete-time systems using the δ -operator is indeed warranted. Towards this end, the work in this paper addresses the development of an easily implementable direct algorithm for stability checking of 2-D δ -system transfer function models. Indirect methods that utilize transformation techniques are not pursued since they can be numerically unreliable. In developing such an algorithm, a tabular form for stability checking of δ -system characteristic polynomials with complex-valued coefficients and certain quantities that may be regarded as their corresponding Schur-Cohn minors are also proposed.

Keywords. Two-dimensional discrete-time systems, two-dimensional digital filters, δ -operator formulated discrete-time systems, bivariate polynomials, Schur-Cohn minors, stability.



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