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

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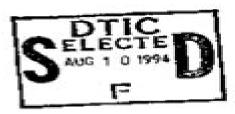
Department of Electrical and Computer Engineering, University of Miami, P.O. See 218291, Comit Gables, PL 35121, U.S.A.

A.S. BOUJARWAH

Electrical and Computer Engineering Department, College of Engineering and Petroleum, Kuwait University, P.O. Box 5969, 13060 Safet, Kuwait.

Abstract. The recent interest in delta-operator (or, 5-operator) formulated discrete-time systems (or, 5-operator) is due mainly to (a) their superior finite wordlength characteristics as compared to their more conventional shift-operator (or, 5-operator) counterparts (or, 5-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 5-operator is indeed warranted. Towards this end, the work in this paper addresses the development of an only implementable discrete algorithm for stability checking of 3-D 5-operator transfer function models. Indirect methods that utilize transfermation techniques are not pursued since they can be more rically unreliable. In developing such an algorithm, a tabular form for stability checking of 5-system characteristic polynomials with complex-valued coefficients and certain quantities that may be regarded as their recreation fine Schur-Cohn minutes are also proposed.

Keywords. Two-dimensional discrete-time systems, two-dimensional digital filters, 6-operator formulated discrete-time systems, bivariate polynomials, Schor-Cohn misson, stability.



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