BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI
Publicat de
Universitatea Tehnică "Gheorghe Asachi" din Iași
Tomul LVI (LX), Fasc. 3, 2010
Secția
ELECTROTEHNICĂ. ENERGETICĂ. ELECTRONICĂ

DISPERSION AND NONLINEARITY DEGREE FOR QUADRATIC PERMUTATION POLYNOMIAL AND WELCH-COSTAS INTERLEAVERS

BY

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Abstract. This paper performs an analysis of QPP (quadratic permutation poly-nomial) and Welch-Costas interleavers with respect to randomizing quantities such as dispersion and nonlinearity degree. An upper bound for the dispersion of QPP interleavers and the nonlinearity degree for Welch-Costas interleavers were derived.

Key words: interleavers; randomizing; dispersion; nonlinearity degree; turbo codes.