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Oblique generalizations of the Walsh basis

Ismagilov I.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

An approach to building generalized oblique discrete Walsh basis is suggested. Methods that allow forming transformation matrices based on oblique discrete Walsh functions are developed. Some properties of the suggested oblique discrete Walsh transformations and their applications to synthesizing algorithms of parametric estimation of polynomial trend models of digital signals are considered. © 2010 Allerton Press, Inc.

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