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A CHARACTERIZATION OF GENERALIZED FRAME MRAS DERIVING ORTHONORMAL WAVELETS

张之华

Dept.of Math., Univ. of California, Davis, California, USA

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摘要 In 2000, Papadakis announced that any orthonormal wavelet must be derived by a generalized frame MRA (GFMRA). In this paper, we give a characterization of GFMRAs which can derive orthonormal wavelets, and show a general approach to the constructions of non-MRA wavelets. Finally we present two examples to illustrate the theory. 关键词 orthonormal wavelets generalized frame MRA non-MRA wavelets

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Zhi Hua ZHANG

Dept.of Math., Univ. of California, Davis, California, USA

Abstract In 2000, Papadakis announced that any orthonormal wavelet must be derived by a generalized frame MRA (GFMRA). In this paper, we give a characterization of GFMRAs which can derive orthonormal wavelets, and show a general approach to the constructions of non-MRA wavelets. Finally we present two examples to illustrate the theory.

Key words orthonormal wavelets generalized frame MRA non-MRA wavelets

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通讯作者 张之华 <u>mu_lehua@sdu.edu.cn;zzh@ucdavis.edu</u>