

Some properties of involution codes

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Abstract

In this paper a generalization of the classical notions of codes, involution codes, are studied. This notion is motivated by DNA strand design where Watson-Crick complementarity can be modular as an antimorphic involution function. The characteristics of involution codes such as involution prefix codes and involution bifix codes are considered. The free property of the subfamilies of involution codes is studied as well. The author defines ρ_θ -languages and provides a procedure to construct ρ_θ -codes.

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