

MULTIPLICATION AND TRANSLATION OF CUBIC β -IDEALS

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Abstract: Cubic set is a structure with two components which has been applied in the conditions of β -ideals. This paper presents the notion of cubic fuzzy β -ideal of a β -algebra. In addition that, the notion of cubic (\bar{a}, b) -translation, cubic μ -multiplication were presented. Further, some engrossing results of cubic β -ideals with the combination of multiplication and translation were investigated.

Keywords and Phrases: β -algebra, β -ideals, Cubic β -ideal, cubic ideals, Cubic translation, Cubic multiplication.

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1. Introduction

The concept of fuzzy sets, a generalisation of the classical notion of set and its characteristic functions, was first developed by Zadeh [13] in 1965. The thought of