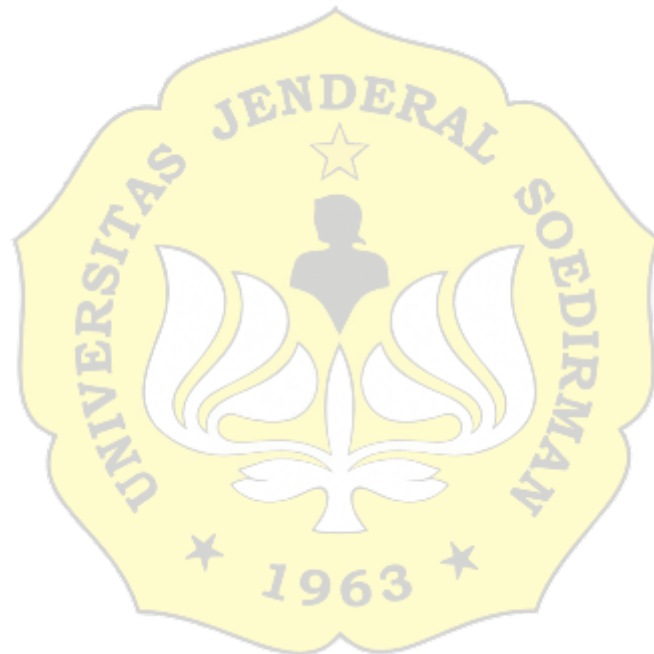


ABSTRAK

Penelitian ini mengkaji sifat-sifat operasi perkalian *box dot* pada dua graf *fuzzy*. Hasil penelitian menunjukkan bahwa operasi perkalian *box dot* pada dua graf *fuzzy* sembarang merupakan graf *fuzzy*, operasi perkalian *box dot* pada dua graf *fuzzy* kuat merupakan graf *fuzzy* kuat dan derajat titik *fuzzy* pada graf *fuzzy* hasil operasi perkalian *box dot* berkaitan dengan derajat keanggotaan titik *fuzzy* dan sisi *fuzzy* dari kedua graf *fuzzy*.

Kata kunci: derajat titik *fuzzy*, graf *fuzzy*, graf *fuzzy* kuat, operasi perkalian *box dot*



ABSTRACT

This study is about the properties of two fuzzy graphs which is operated by box dot product operation. The result of this study are box dot product of two fuzzy graphs is fuzzy graph, box dot product of two strong fuzzy graphs is strong fuzzy graph and degree of vertex from fuzzy graphs using box dot product operation relate to degree of membership of vertex and edge from each graphs.

Keywords : *degree of fuzzy vertex, fuzzy graph, strong fuzzy graph, box dot product*

