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Chapter no: 1

Section no: 1

Exercise no: 47

Question: The truth value of the disjunction of two proposition two propositions in fuzzy logic is the maximum of the truth values of the propositions. What are the truth values of the statements the statements "Fred is happy, or John is happy" and "Fred is not happy, or John is not happy"?

Ans:

1. Value of :

    a. Fred is happy = .8

    b. John is happy = .4

     So value of disjunction = .8

2. Value of :

    a. Fred is not happy = 1-.8 = .2

    b. John is not happy = 1-.4 = .6

    So value of disjunction = .6