DETERMINATION OF EXISTENCE OF POLYMERS WITH GIVEN MELTING POINTS USING FUZZY THEORY

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In this paper we apply the fuzzy decision making problem using fuzzy integers to determine the existence of polymers with given melting points. To the best of our knowledge till date no body has studied the problem of the existence of polymers with given melting point or a range, which the melting point of the polymer lies. Since a technologist to built an apparatus be it, part of an engine or aeroplane or any other equipment when he uses the polymer he should approximately assign a melting point for it. Since it is only an approximate value it may vary from x.0 x.1 and the value for which the polymer with that melting point exist cannot be easily obtained from experiment for such an act will largely take not only time but also money: hence to over come all these difficulties we give a method by which we will give the
existence or otherwise of the polymers knowing the melting point.

This paper consists of four sections. In the first section we recall the definition used in this paper. In the second section we describe the methodology of the problem. The third section gives the method by which solutions are sought in stages. In the final section we give some conclusions and suggestions for implementation.