

SOME SOLUTIONS FOR THE CLASSIFICATION PROBLEM IN S -FIBER HOMOTOPICALLY EQUIVALENT RELATION

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Abstract: The purpose of this research is to give some solutions for the classification problem in S -fiber homotopically equivalent relation, which will be its analogical structure in S -fibration theory as follows: Under what conditions two S -fibrations, over a common base, will be S -fiber homotopy equivalent?

AMS Subject Classification: 53D28, 14F35, 46A22

Key Words: fibration, homotopy, lifting function

1. Introduction

Under the notion of homotopy theory for topological spaces, in 2002 Cerin Z, [1], introduced the definition of homotopy theory for topological semigroups. Furthermore, he extended some properties of homotopy theory for topological spaces to their analogical structures in homotopy theory for topological semigroups such as contractibility, retraction, pathwise connectedness and homotopically domination. Moreover, he introduced the notion of Hurewicz fibration in homotopy theory for topological semigroups exclusively as a definition (S -fibration) without refereing to its properties such as lifting function, fiber homotopically equivalent relation, etc. In [6], we constructed the lifting function for the S -fibration.