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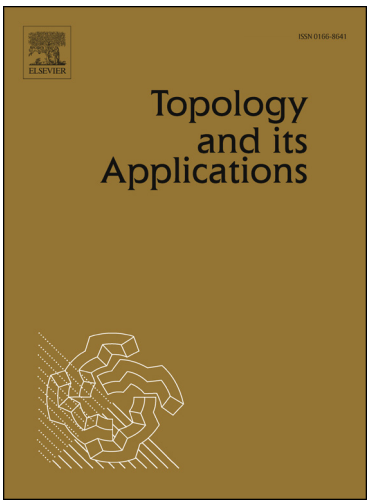

Property of being semi-Kelley is a sequentially strong Whitney-reversible property

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Property of being semi-Kelley is a sequentially strong Whitney-reversible property ☆

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Abstract

A continuum X is said to be semi-Kelley provided that for each subcontinuum K and for every two maximal limit continua M and L in K either $M \subset L$ or $L \subset M$. In this paper we show that the property of being semi-Kelley is a sequentially strong Whitney-reversible property, with this result we obtain that the property of being semi-Kelley is a Whitney-reversible property, answering a question posed by A. Illanes in [2]. Moreover, we generalize the Charatonik's Theorem ([4, p. 83, 4.5]) and we prove a version of this theorem on n-fold Symmetric Product.

Keywords: Continuum, hyperspace, property of Kelley, semi-Kelley, Whitney-reversible property, strong Whitney-reversible property, sequentially strong Whitney-reversible property.

2000 MSC: Primary: 54B15; Secondary: 54D20, 54F15

1. Introduction

The property of Kelley is an important tool in the continuum theory and its hyperspaces. For this reason, in [4] J. J. Charatonik and W. J. Charatonik

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