



**REGULARLY OPEN SETS, THE SEMI-REGULARIZATION  
PROCESS, AND SUBSPACES**

Charles Dorsett

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**Abstract**

Within this paper, regularly closed sets are further characterized. The new characterization is used to prove the semiregularization process for forming a topology from a given topology gives, at most, one new topology and that the resulting semiregularization space is semiregular. In addition, subspaces and the semiregularization process are further investigated showing the semiregularization process is nicely behaved in open set subspaces.

**Keywords and phrases:** regularly open sets, semiregular spaces, subspaces.

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