

Ofelia T. Alas, Richard G. Wilson

Spaces in which compact subsets are closed and the lattice of T_1 -topologies on a set

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Abstract: We obtain some new properties of the class of KC-spaces, that is, those topological spaces in which compact sets are closed. The results are used to generalize theorems of Anderson [1] and Steiner and Steiner [12] concerning complementation in the lattice of T_1 -topologies on a set X .

Keywords: KC-space, T_1 -complementary topology, T_1 -independent, sequential space

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