

Continuous Transformations Between Lindelöf and Regular Groups

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Abstract

This thesis examined topological groups and their properties, including the separation axiom, compact topological groups, Lindelöf topological groups and the homeomorphism mapping of topological groups. It has also defined the Lindelöf topological group, displayed the translation of a Lindelöf topological group onto a regular topological group, and demonstrated how this preserves the Lindelöf property.

Keywords: Topological Group, Lindelöf space, Regular space, Lindelöf Topological Group, Regular Topological Group, translation of Topological Groups.