

ladder connected

Canonical name LadderConnected
Date of creation 2013-03-22 14:00:29
Last modified on 2013-03-22 14:00:29
Owner mathcam (2727)
Last modified by mathcam (2727)

Numerical id 6

Author mathcam (2727)

Entry type Definition Classification msc 54-00

 $Related\ topic \qquad Characterization Of Connected Compact Metric Spaces$

Definition Suppose X is a topological space. Then X is called **ladder connected** provided that any open cover \mathcal{U} of X has the following property: If $p, q \in X$, then there exists a finite number of open sets U_1, \ldots, U_N from \mathcal{U} such that $p \in U_1, U_1 \cap U_2 \neq \emptyset, \ldots, U_{N-1} \cap U_N \neq \emptyset$, and $q \in U_N$.