

**Dolecki, Szymon; Mynard, Frédéric**

**Convergence-theoretic mechanisms behind product theorems.** (English) Zbl 0953.54002  
Topology Appl. 104, No. 1-3, 67-99 (2000).

From the abstract: Commutation of the topologizer with products, quotientness of product maps, preservation of some properties by products, topologicity of continuous convergence, continuity of complete lattices are facets of the same quest. A new method of multifilters is used to establish sufficient and necessary conditions for these properties in the framework of general convergence. Several classical results (of Whitehead, Michael, Boehme, Cohen, Day and Kelly, Hofmann and Lawson, Schwarz and Weck, Kent and Richardson, and others) are extended or refined.

Reviewer: [Miroslav Hušek \(Praha\)](#)

**MSC:**

- [54A05](#) Topological spaces and generalizations (closure spaces, etc.)
- [54B10](#) Product spaces in general topology
- [54C10](#) Special maps on topological spaces (open, closed, perfect, etc.)
- [54B30](#) Categorical methods in general topology
- [54B15](#) Quotient spaces, decompositions in general topology

Cited in **1** Review  
Cited in **9** Documents

**Keywords:**

[Cartesian product](#); [quotient](#); [multifilter](#)

**Full Text:** [DOI](#)