

**Gorbatsevich, V. V.; Onishchik, A. L.****Lie groups of transformations.** (Russian) Zbl 0656.22003

Itogi Nauki Tekh., Ser. Sovrem. Probl. Mat., Fundam. Napravleniya 20, 103-240 (1988).

A survey of the general theory of Lie groups of transformations, the theory of homogeneous spaces, the basic facts of the theory of compact Lie groups of transformations is given. Results on transitive actions of solvable and nilpotent Lie groups and on transitive actions on compact homogeneous spaces are given.

**MSC:**

- [22E25](#) Nilpotent and solvable Lie groups
- [57S15](#) Compact Lie groups of differentiable transformations
- [57S20](#) Noncompact Lie groups of transformations
- [57-02](#) Research exposition (monographs, survey articles) pertaining to manifolds and cell complexes

Cited in **3** Reviews  
Cited in **17** Documents

**Keywords:**

Lie groups of transformations; homogeneous spaces; transitive actions