

**Xu, Mingyao**

**Some work on vertex-transitive graphs by Chinese mathematicians.** (English) [Zbl 0878.05045](#)

Wan, Zhexian (ed.) et al., Group theory in China. Dedicated to Hsio-Fu Tuan on the occasion of his 82nd birthday. Dordrecht: Kluwer Academic Publishers. Math. Appl., Dordr. 365, 224-254 (1996).

This is an expository paper on vertex-transitive graphs, with emphasis on recent results obtained in this area by Chinese mathematicians. The two main topics dealt with are isomorphism problems for Cayley (di-)graphs and classifications of special subclasses (such as arc-transitive graphs of order a product of two primes). The topics covered here include also hamiltonicity and half-transitive graphs. There is an extensive list of references (more than 100 items).

For the entire collection see [\[Zbl 0857.00013\]](#).

Reviewer: [R.Scapellato \(Milano\)](#)

**MSC:**

**05C25** Graphs and abstract algebra (groups, rings, fields, etc.)

**05C20** Directed graphs (digraphs), tournaments

**20B25** Finite automorphism groups of algebraic, geometric, or combinatorial structures

Cited in **2** Documents

**Keywords:**

[Cayley digraph](#); [vertex-transitive graphs](#); [isomorphism](#); [arc-transitive graphs](#); [hamiltonicity](#); [half-transitive graphs](#)