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On the structure of graphs with path-width at most two. (English) Zbl 1289.05443
Stud. Sci. Math. Hung. 49, No. 2, 211-222 (2012).

N. G. Kinnersley and *M. A. Langston* [*Discrete Appl. Math.* 54, No. 2-3, 169-213 (1994; [Zbl 0941.68590](#))] used a computer search to characterize the class of graphs with path-width at most two. There the excluded minor list consists of 110 graphs. The authors here concentrate on the building blocks of the graphs with path-width at most two and how they are glued together. The main result is that for 2-connected graphs with path-width at most two there exist only three excluded minors. So the authors get a short and compact characterization of 2-connected and 2-edge-connected graphs with path-width at most two.

Reviewer: [Michael Hager \(Leonberg\)](#)

MSC:

[05C83](#) Graph minors
[05C75](#) Structural characterization of families of graphs
[05C38](#) Paths and cycles

Cited in **1** Review
Cited in **5** Documents

Keywords:

[path-width](#); [excluded minor](#); [block](#)

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