Summary: In Part I of this series [ibid. 116, 1–24 (2016; Zbl 1327.05269)] we described three algorithms that construct canonical tree-decompositions of graphs which distinguish all their $k$-blocks and tangles of order $k$. We now establish lower bounds on the number of parts in these decompositions that contain such a block or tangle, and determine conditions under which such parts contain nothing but a $k$-block.

MSC:
05C83 Graph minors
05C05 Trees
05C70 Edge subsets with special properties (factorization, matching, partitioning, covering and packing, etc.)

Keywords:
minor; tangle; $k$-block; tree-decomposition

Full Text: DOI

References:
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