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A constructive proof of Vizing's theorem. (English) Zbl 0795.68157

Inf. Process. Lett. 41, No. 3, 131-133 (1992).

The proof of Vizing's theorem given in this note is essentially the same proof given by Vizing [see *S. Fiorini* and *R. J. Wilson*: Edge-colourings of graphs, Pitman (1977; [Zbl 0421.05023](#)), pp. 30-32]. There are some ambiguities/gaps in the description of the process for "Inverting the cd-path of X " in this note. Vizing's theorem has been generalized by *L. D. Andersen* and also by *M. K. Gol'dberg* [see the reviewer's book: Some topics in graph theory, Cambridge University Press (1986; [Zbl 0588.05002](#)), pp. 14-16].

Reviewer: [H.P.Yap \(Singapore\)](#)

MSC:

[68R10](#) Graph theory (including graph drawing) in computer science
[68Q60](#) Specification and verification (program logics, model checking, etc.)
[05C15](#) Coloring of graphs and hypergraphs

Cited in **19** Documents

Keywords:

graph algorithm; edge-colourings of graphs; Vizing's theorem

Full Text: [DOI](#)

References:

- [1] Bollobás, B., Graph theory, (1979), Springer New York · [Zbl 0418.05049](#)
- [2] Dijkstra, E.W.; Rao, J.R., Designing the proof of Vizing's algorithm, ()

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