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Total domination in graphs. (English) Zbl 1408.05002

Springer Monographs in Mathematics. New York, NY: Springer (ISBN 978-1-4614-6524-9/hbk; 978-1-4614-6525-6/ebook). xiv, 178 p. (2013).

Publisher's description: Total Domination in Graphs gives a clear understanding of this topic to any interested reader who has a modest background in graph theory. This book provides and explores the fundamentals of total domination in graphs. Some of the topics featured include the interplay between total domination in graphs and transversals in hypergraphs, and the association with total domination in graphs and diameter-2-critical graphs. Several proofs are included in this text which enables readers to acquaint themselves with a toolbox of proof techniques and ideas with which to attack open problems in the field. This work is an excellent resource for students interested in beginning their research in this field. Additionally, established researchers will find the book valuable to have as it contains the latest developments and open problems.

MSC:

- 05-02 Research exposition (monographs, survey articles) pertaining to combinatorics
- 05C69 Vertex subsets with special properties (dominating sets, independent sets, cliques, etc.)
- 05C65 Hypergraphs

Cited in **152** Documents

Keywords:

[total dominating set](#); [undirected graphs](#)

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