1. Record Nr. UNINA9910254098903321

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| Autore | Li Xueliang |
| Titolo | Generalized connectivity of graphs / / by Xueliang Li, Yaping Mao |
| Pubbl/distr/stampa | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016 |
| ISBN | 3-319-33828-5 |
| Edizione | [1st ed. 2016.] |
| Descrizione fisica | 1 online resource (148 p.) |
| Collana | SpringerBriefs in Mathematics, , 2191-8198 |
| Disciplina | 510 |
| Soggetti | Graph theory<br>Combinatorial analysis<br>Computer science—Mathematics<br>Operations research<br>Management science<br>Graph Theory<br>Combinatorics<br>Discrete Mathematics in Computer Science<br>Operations Research, Management Science |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | 1. Introduction -- 2. Results for some graph classes -- 3. Algorithm and complexity -- 4. Sharp bounds of the generalized (edge-) connectivity -- 5. Graphs with given generalized connectivity -- 6. Nordhaus-Gaddum-type results -- 7. Results for graph products -- 8. Maximum generalized local connectivity -- 9. Generalized connectivity for random graphs -- Bibliography.– Index. . |
| Sommario/riassunto | Noteworthy results, proof techniques, open problems and conjectures in generalized (edge-) connectivity are discussed in this book. Both theoretical and practical analyses for generalized (edge-) connectivity of graphs are provided. Topics covered in this book include: generalized (edge-) connectivity of graph classes, algorithms, computational complexity, sharp bounds, Nordhaus-Gaddum-type results, maximum generalized local connectivity, extremal problems, random graphs, multigraphs, relations with the Steiner tree packing |

problem and generalizations of connectivity. This book enables graduate students to understand and master a segment of graph theory and combinatorial optimization. Researchers in graph theory, combinatorics, combinatorial optimization, probability, computer science, discrete algorithms, complexity analysis, network design, and the information transferring models will find this book useful in their studies.