1. Record Nr. UNINA9910338257403321 Autore Chartrand Gary Titolo How to Label a Graph / / by Gary Chartrand, Cooroo Egan, Ping Zhang Pubbl/distr/stampa Cham:,: Springer International Publishing:,: Imprint: Springer,, 2019 3-030-16863-8 **ISBN** Edizione [1st ed. 2019.] Descrizione fisica 1 online resource (98 pages) Collana SpringerBriefs in Mathematics, , 2191-8198 Disciplina 511.5 Soggetti Graph theory Combinatorics Applied mathematics **Engineering mathematics Graph Theory** Applications of Mathematics Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia 1 Introduction -- 2 Graceful Labelings -- 3 Harmonious Labelings -- 4 Nota di contenuto Prime Labelings -- 5 Additive Labelings -- 6 Zonal Labelings. . Sommario/riassunto This book depicts graph labelings that have led to thought-provoking problems and conjectures. Problems and conjectures in graceful labelings, harmonious labelings, prime labelings, additive labelings, and zonal labelings are introduced with fundamentals, examples, and illustrations. A new labeling with a connection to the four color theorem is described to aid mathematicians to initiate new methods and techniques to study classical coloring problems from a new perspective. Researchers and graduate students interested in graph labelings will find the concepts and problems featured in this book

valuable for finding new areas of research.