1. Record Nr. UNINA9910484854303321 Autore Akiyama J Titolo Factors and factorizations of graphs: proof techniques in factor theory // Jin Akiyama, Mikio Kano New York, : Springer, 2011 Pubbl/distr/stampa 3-642-21919-5 **ISBN** Edizione [1st ed. 2011.] 1 online resource (XII, 353 p. 153 illus.) Descrizione fisica Collana Lecture notes in mathematics (Springer-Verlag), , 0075-8438; ; 2031 Altri autori (Persone) KanoMikio Disciplina 512/.57 Soggetti Factors (Algebra) Factorization (Mathematics) Graph theory Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Bibliographic Level Mode of Issuance: Monograph Nota di bibliografia Includes bibliographical references and index. Nota di contenuto 1 Basic Terminology -- 2 Matchings and 1-Factors -- 3 Regular Factors and f-Factors -- 4 (g, f)-Factors and [a, b]-Factors -- 5 [a, b]-Factorizations -- 6 Parity Factors -- 7 Component Factors -- 8 Spanning Trees. This book chronicles the development of graph factors and Sommario/riassunto factorizations. It pursues a comprehensive approach, addressing most of the important results from hundreds of findings over the last century. One of the main themes is the observation that many theorems can be proved using only a few standard proof techniques. This stands in marked contrast to the seemingly countless, complex proof techniques offered by the extant body of papers and books. In addition to covering the history and development of this area, the book offers conjectures and discusses open problems. It also includes numerous explanatory figures that enable readers to progressively and intuitively understand the most important notions and proofs in the

area of factors and factorization.