1. Record Nr. UNISA996466647103316 Autore Akiyama Jin **Titolo** Factors and Factorizations of Graphs [[electronic resource]]: Proof Techniques in Factor Theory / / by Jin Akiyama, Mikio Kano Pubbl/distr/stampa Berlin, Heidelberg:,: Springer Berlin Heidelberg:,: Imprint: Springer, 2011 **ISBN** 3-642-21919-5 Edizione [1st ed. 2011.] Descrizione fisica 1 online resource (XII, 353 p. 153 illus.) Lecture Notes in Mathematics, , 0075-8434; ; 2031 Collana Disciplina 512/.57 Soggetti Mathematics Computer programming Mathematics, general **Programming Techniques** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Bibliographic Level Mode of Issuance: Monograph Note generali Nota di bibliografia Includes bibliographical references and index. 1 Basic Terminology -- 2 Matchings and 1-Factors -- 3 Regular Factors Nota di contenuto and f-Factors -- 4 (g, f)-Factors and [a, b]-Factors -- 5 [a, b]-Factorizations -- 6 Parity Factors -- 7 Component Factors -- 8 Spanning Trees. Sommario/riassunto This book chronicles the development of graph factors and 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.