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Maximum (g, f) -factors of a general graph. (English)

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This paper presents a characterization of maximum (g, f) -factors of a general graph in which multiple edges and loops are allowed. An analogous characterization of the minimum (g, f) -factors of a general graph is also presented. In addition, we obtain a transformation theorem for any two general graphs on the same vertex set. As special cases, we have the transformation theorems for both maximum (g, f) -factors and minimum (g, f) -factors. Our results generalize some of C. Berge's results on maximum matchings and maximum c -matchings of a multiple graph.

Keywords : maximum (g, f) -factors; minimum (g, f) -factors

Classification :

*05C70 Factorization, etc.

05C35 Extremal problems (graph theory)

Cited in ...