

论文

关于连通图幂中边不交1-因子

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摘要 本文讨论连通图幂 $G^{\sim n}$ 存在 n 个边不交1-因子的条件.本文中所指图均为简单图.除特别强调外,所用术语、记号均与[1]中一致.定义.设 G 为简单连通图, n 为自然数,则 $G^{\sim n}$ 为 $V(G^{\sim n})=V(G),E(G^{\sim n})=\{uv:d_G(u,v)\leq n,u,v,\in V(G)\}$.对 $G^{\sim n}$ 的因子已有不少结果.主要有以下几个...

关键词

分类号

ON THE EDGE-DISJOINT 1-FACTORS IN THE POWERS OF THE CONNECTED GRAPHS

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Abstract In this paper,the conditions for the power of the connected graph to have n edge-disjoint 1-factors are discussed,and the following results are obtained:Theorem 2.1.If tree T has a 1-factor and $\Delta(T)\leq 3,v(T)\geq n+1(n>2)$,then there exist n edge-disjoint 1-factors of $T^{\sim n}$.Theorem 2.2.The n th power of the connected $k_{(1,3)}$ -free graph $G(v(G)\geq n+1)$ with even order has n edge-disjoint 1-factors.Theorem 3.1.If a connected graph G has a 1-factor and $v(G)\geq 2k+2(k\geq 1)$,then $G^{\sim (2k+1)}$ has $2k+1$ edge-disjoint 1-factors.

Key words

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