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奇阶完备残差图

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Residually Complete Graph with Odd Order

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- 摘要
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全文: PDF (291 KB) HTML (1 KB) 输出: BibTeX | EndNote (RIS) 背景资料

摘要 本文讨论奇阶完备残差图, 证明了对于任意奇数n, 不存在奇阶 K_n-残差图. 对任意奇数$t\geqslant 3$和$n=2t$, $2t-2$,$2t-4$构造了一类具有奇阶$2n+t$的K_n-残差图. 我们证明了当$n\equiv 0$, (mod 4)时, K_n-残差图的最小奇阶为$(5n/2)+1$; 当$n\equiv 2$, (mod4)时, K_n-残差图的最小奇阶为$(5n/2)$, 并且证明了相应的最小奇阶K_n-残差图的唯一性.

关键词: 完备残差图 闭邻域

Abstract: In this paper, we discuss residually complete graphs with odd order, it is easy to prove that for any odd number n, there is no K_n-residual graphs with odd order. For odd integer $t \geqslant 3$ and $n = 2t$, $2t-2$, $2t-4$, we construct a class of K_n-residual graphs with odd order $2n + t$. For every even number n, we proved that there exist K_n-residual graphs with odd orders are $(5n/2)$ and $5n/2 +1$ whenever $n \equiv 2$ (mod 4) and $n \equiv 0$ (mod 4) respectively. For $n \equiv 2$ (mod 4), we proved that K_n-residual graph with least odd order is unique.

Key words: residually complete graph neighborhood

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