论文

ON NICE SEQUENCES CONCERNING HAMILTONICITY OF GRAPHS

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收稿日期   修回日期   网络版发布日期   接受日期

摘要   In the paper, the (k-1)-traceable-nice ((k-1)-T-nice) and k-homogeneously-traceable-nice (k-HT-nice) sequence are defined similarly to the definition of k-Hamilton-nice (k-H-nice) and (k+1)-Hamilton-connected-nice ((k+1)-HC-nice) sequence. The relationships among these four nice sequences are discussed. The main results are as follows: Let $\eta=(a_1, a_2,\ldots, a_{k+1})$ be a non-negative rational sequence, $k\geq 2$. (1) If η is $(k+1)$-HC-nice and $a_{k+1}=2$, then η is k-HT-nice, (2) If η is k-HT-nice and $a_{k+1}=2$,then η is (k-1)-T-nice, (3) If η is k-H-nice, then η is k-HT-nice. Meanwhile, four unsolved problems on these topics are proposed.

关键词   k-H-nice sequence,k-1)-T-nice sequence,k

分类号

Key words   k-H-nice sequence   k-1)-T-nice sequence   k-HT-nice sequence   (k+1)-HC-nice sequence

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