

几类新的上可嵌入图

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摘要 讨论了几类上可嵌入的边连通简单图,得到了如下结果:

若 G 为简单连通图,且满足以下条件1)-3)之一:

1) G 为1-边连通的,且不含完全图 K_3 , $\alpha(G) \leq 3$; 2) G 为2-边连通的,且不含完全图 K_3 , $\alpha(G) \leq 5$; 3) G 为3-边连通的,且不含完全图 K_3 , $\alpha(G) \leq 10$,则 G 是上可嵌入的,且在上述相应条件下,独立数上界都分别是最好的.

关键词 [最大亏格](#), [Betti亏数](#), [上可嵌入的](#), [独立数](#).

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Some Classes of New Upper Embeddable Graphs

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Abstract

Some classes of new upper embeddable graphs are investigated, and it is shown that for any connected simple graph G , if one of the following three conditions is satisfied: 1) If G is 1- edge-connected which doesn't have the complete subgraph K_3 , and $\alpha(G) \leq 3$; 2) If G is 2- edge-connected which doesn't have the complete subgraph K_3 , and $\alpha(G) \leq 5$; 3) If G is 3- edge-connected which doesn't have the complete subgraph K_3 , and $\alpha(G) \leq 10$ then G is embeddable, and the upper bound of the independent number is best under the corresponding condition.

Key words [Maximum genus](#) [Betti deficiency](#) [upper embeddable](#) [independent number](#).

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