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图的各种一般全染色

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Various General Total Colorings of Graphs

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摘要 图G的正常全染色是指若干颜色给G的顶点和边的分配,使任意2个相邻顶点、2条相邻边和任一顶点与它的关联边得到的颜色不同.将正常全染色的限制条件减弱,得到了各种一般全染色,并讨论了它们的色数.

关键词: 全染色 色数 边色数

Abstract: A proper total coloring of a graph G is an assignment of colors to the edges and vertices of G in such a way that no two adjacent vertices,no two adjacent edges,and no incident vertex and edge receive the same color.In this paper,the authors weaken the constraints of the proper total coloring to obtain several general total colorings and discuss their chromatic numbers.

Key words: total coloring chromatic number edge chromatic index

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