

图的 $[a, b]$ -因子存在性的两个结果周思中<sup>1</sup>, 刘红霞<sup>2</sup>, 徐兰<sup>3</sup>

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Two Results on the Existence of  $[a, b]$ -Factors in GraphsZHOU Sizhong<sup>1</sup>, LIU Hongxia<sup>2</sup>, XU Lan<sup>3</sup>

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**摘要** 设 $G$ 是一个图,  $a, b$ 是整数且满足 $0 \leq a \leq b$ . 如果存在 $G$ 的一个支撑子图 $F$ , 使对任意的 $x \in V(G)$ 有 $a \leq d_F(x) \leq b$ , 则称 $F$ 是 $G$ 的一个 $[a, b]$ -因子. 本文给出图中具有特定性质的 $[a, b]$ -因子的两个充分条件.

**关键词:** 图 最小度 邻集 联结数  $[a, b]$ -因子

**Abstract:** Let  $G$  be a graph, and let  $a, b$  be two integers with  $0 \leq a \leq b$ . Then a spanning subgraph  $F$  of  $G$  is called an  $[a, b]$ -factor if  $a \leq d_F(x) \leq b$  holds for each  $x \in V(G)$ . In this paper, we give two sufficient conditions for the existence of  $[a, b]$ -factors with prescribed properties.

**Key words:** graph minimum degree neighborhood binding number  $[a, b]$ -factor



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