Fulkerson Coloring of Some Families of Snarks

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Abstract

The Fulkerson Conjecture states that every cubic bridgeless graph has six perfect matchings such that every edge of the graph is contained in exactly two of these perfect matchings. In this paper, a useful technical lemma is proved. This lemma is further applied in the verification of Fulkerson conjecture for some families of snarks (Goldberg snarks, flower snarks).