



COVERING TWO DIGRAPHS WITH ARBORESCENCES

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Let G_1 and G_2 be finite digraphs, both with vertex set V . Suppose that each vertex v of V has nonnegative integers $f(v)$ and $g(v)$, and each arc e of G_4 has nonnegative integers $a_i(e)$ and $b_i(e)$ with $a_i(e) \leq b_i(e)$, $i=1,2$. In this paper we give a sufficient condition for the existence of k arborescences in G_4 covering each arc e of G_i at least $a_i(e)$ and satisfying the condition that for each v in V $f(v) \leq r_1(v) = r_2(v) \leq g(v)$ where $r_i(v)$ denote the number of the arcs of G_i starting at v .

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