Zbl 273.05111

Articles of (and about)

Burr, Stefan A.; Erdős, Paul; Spencer, J.H.

Ramsey theorems for multiple copies of graphs. (In English)

Trans. Am. Math. Soc. 209, 87-99 (1975).

If G and H are graphs, define the "Ramsey number" r(G, H) to be the least number p such that if the edges of the complete graph K_p are colored red and blue (say), either the red graph contains G as a subgraph or the blue graph contains H. Let mG denote the union of m disjoint copies of G. The following result is proved: Let G and H have k and l points respectively and have point independence numbers of i and j respectively. Then $N-1 \leq r(mG, nH) \leq N+C$, where $N=km+ln-\min(mi,nj)$ and where G is an effectively computable function of G and G. The method used permits exact evaluation of G and G are G and G and G are G and G and G are G and G are G and G are G and G are G and G and G are G and G and G are G and G are G and G are G and G and G are G and G and G are G and G and G are G are G and G and G are G and G and G are G and G and G are G are G are G and G are G are G are G and G are

Classification:

05C35 Extremal problems (graph theory)

05C15 Chromatic theory of graphs and maps