Let G and H be two graphs. The Ramsey number $r(G, H)$ is the smallest positive integer p such that coloring the edges of the complete graph on p vertices with two colors results in either a copy of G with all of its edges assigned the first color or a copy of H with all of its edges assigned the second color. The main result in this paper is

$$r(B_m, T_n) = 2n - 1$$

where T_n is any tree on n vertices and B_m is the book with m pages, i.e. $B_m = K_{(1,1,m)}$. The authors then consider some generalizations of this result.

J.E.Graver

Classification:
05C55 Generalized Ramsey theory

Keywords:
Ramsey number; complete graph; tree; book