1044-05-101   **Ronald J. Gould*** (`rg@mathcs.emory.edu`), Dept. of Mathematics and Computer Science, Emory University, Atlanta, GA 30322. *Recent Results on Saturation Numbers.*

A graph G is called an H-saturated graph if G does not contain H as a subgraph, but $G \cup \{xy\}$ contains a copy of H, for any two nonadjacent vertices x and y. The *saturation number of H*, denoted by $sat(H, n)$, is the minimum number of edges in G for all H-saturated graphs G

Saturation numbers have proven to be more difficult to find then their counterparts, extremal numbers (the maximum number of edges in a saturated graph).

In this talk we survey some recent advances on saturation numbers for the union of cliques, books, cycles, trees and more. (Received August 25, 2008)