1044-34-199 **James Robert Ward*** (jrw87@math.uab.edu), Department of Mathematics, University of Alabama at Birmingham, Birmingham, AL 35294. *A nonresonance condition for boundary value problems.*

A short history of nonresonance conditions for nonlinear boundary value problems for second order ordinary differential equations will be presented. This will be followed by the presentation of a new nonresonance condition, as follows: Consider the boundary value problem

$$u'' + g(u)u = h(t, u, u')$$

$$u(0) = 0,\ u(\pi) = 0$$

with g continuous, periodic, and positive and h continuous and bounded. There is a solution if the mean value of g is not the square of an integer. (Received September 01, 2008)