Jeffrey A. Ehme* (jehme@spelman.edu), Dept. of Mathematics Box 214, Spelman College, Atlanta, GA 30314. Uniqueness and Existence Via Linearized Boundary Value Problems.

We establish conditions which lead to the uniqueness and existence of solutions of \( y^{(n)} = f(t, y, y', \ldots, y^{(n-1)}) \) for various boundary conditions. The boundary conditions include conjugate, focal, Sturm-Liouville, and Lidstone type conditions. It will be assumed that the function \( f \) is bounded and that solutions exists and are unique for linearized versions of the problems. (Received September 23, 2005)