

BOUNDARY VALUE PROBLEMS FOR ORDINARY DIFFERENTIAL EQUATIONS¹

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1. Consider the n th order differential equation

$$(1.1) \quad y^{(n)} = f(t, y, y', \dots, y^{(n-1)}) \quad (n \geq 2)$$

where $f(t, x_0, x_1, \dots, x_{n-1})$ and $f_i(t, x_0, \dots, x_{n-1})$ are continuous on $I \times R^n$ where I is an open subinterval of R and where

$$f_i(t, x_0, \dots, x_{n-1}) = \frac{\partial f}{\partial x_i}(t, x_0, \dots, x_{n-1}), \quad i = 0, 1, \dots, n-1.$$

After some preliminaries in §1, we devote §2 to establishing necessary and (or) sufficient conditions in order that there exist at most one solution of (1.1) satisfying the boundary conditions

$$(1.2) \quad y^{(i)}(c) = \alpha_i, \quad y^{(k)}(d) = \beta,$$

or

$$(1.3) \quad y^{(k)}(c) = \alpha, \quad y^{(i)}(d) = \beta_i,$$

when $c, d \in I$, $c < d$, $i = 0, 1, 2, \dots, n-2$, $0 \leq k \leq n-1$ is fixed, and the α_i and β_i are constants. We shall refer to (1.2) as an $(n; k)$ BVP for equation (1.1) and (1.3) as a $(k; n)$ BVP. (We use n rather than $n-1$ to avoid confusion when $k = n-1$.) Our technique, similar to that used in [1] for $n = 2$, involves studying the behaviour of solutions of the variational equation

$$(1.4) \quad z^{(n)} = \sum_{i=0}^{n-1} f_i(t, y(t), \dots, y^{(n-1)}(t))z^{(i)}$$

where $y(t)$ is a solution of (1.1). For $n = 2$ and 3 it has been shown [2], [3] that if solutions to the n -point BVP,

$$(1.5) \quad y(t_i) = \alpha_i, \quad t_i < t_{i+1}, \quad 1 \leq i \leq n-1,$$

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Differential Equations With Boundary Value Problems

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