

## BOUNDARY VALUE PROBLEMS FOR ORDINARY DIFFERENTIAL EQUATIONS<sup>1</sup>

LYNN ERBE

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  $\alpha_i$  and  $\beta_i$  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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# Boundary Problems For Differential Eq 68

**Edouard Goursat**



## **Boundary Problems For Differential Eq 68:**

Boundary Value Problems of Mathematical Physics Ivar Stakgold, 2000-06-30 For more than 30 years this two volume set has helped prepare graduate students to use partial differential equations and integral equations to handle significant problems arising in applied mathematics engineering and the physical sciences Originally published in 1967 this graduate level introduction is devoted to the mathematics needed for the modern approach to boundary value problems using Green's functions and using eigenvalue expansions Now a part of SIAM's Classics series these volumes contain a large number of concrete interesting examples of boundary value problems for partial differential equations that cover a variety of applications that are still relevant today For example there is substantial treatment of the Helmholtz equation and scattering theory subjects that play a central role in contemporary inverse problems in acoustics and electromagnetic theory

*Scientific and Technical Aerospace Reports*, 1968     **OAR Index of Research Results**, 1967     *OAR Quarterly Index of Current Research Results* United States. Air Force. Office of Aerospace Research, 1967     *Boundary Problems for Differential Equations. II* V. P. Mihailov, 1970     *OAR Cumulative Index of Research Results*, 1967     **Differential Equations with Boundary-value Problems** Dennis G. Zill, Michael R. Cullen, 2001 This new Fifth Edition of Zill and Cullen's best selling book provides a thorough treatment of boundary value problems and partial differential equations This edition maintains all the features and qualities that have made *Differential Equations with Boundary Value Problems* popular and successful over the years Written in a straightforward readable helpful not too theoretical manner this new edition keeps the reader firmly in mind and strikes a perfect balance between the teaching of traditional content and the incorporation of evolving technology     **Nonlinear Differential Equations in Ordered Spaces** S. Carl, Seppo Heikkilä, 2000-06-14 Extremality results proved in this Monograph for an abstract operator equation provide the theoretical framework for developing new methods that allow the treatment of a variety of discontinuous initial and boundary value problems for both ordinary and partial differential equations in explicit and implicit forms By means of these extremality results the authors prove the existence of extremal solutions between appropriate upper and lower solutions of first and second order discontinuous implicit and explicit ordinary and functional differential equations They then study the dependence of these extremal solutions on the data The authors begin by developing an existence theory for an abstract operator equation in ordered spaces and offer new tools for dealing with different kinds of discontinuous implicit and explicit differential equation problems They present a unified approach to the existence of extremal solutions of quasilinear elliptic and parabolic problems and extend the upper and lower solution method to elliptic and parabolic inclusion of hemivariation type using variational and nonvariational methods *Nonlinear Differential Equations in Ordered Spaces* includes research that appears for the first time in book form and is designed as a source book for pure and applied mathematicians Its self contained presentation along with numerous worked examples and complete detailed proofs also make it accessible to researchers in

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