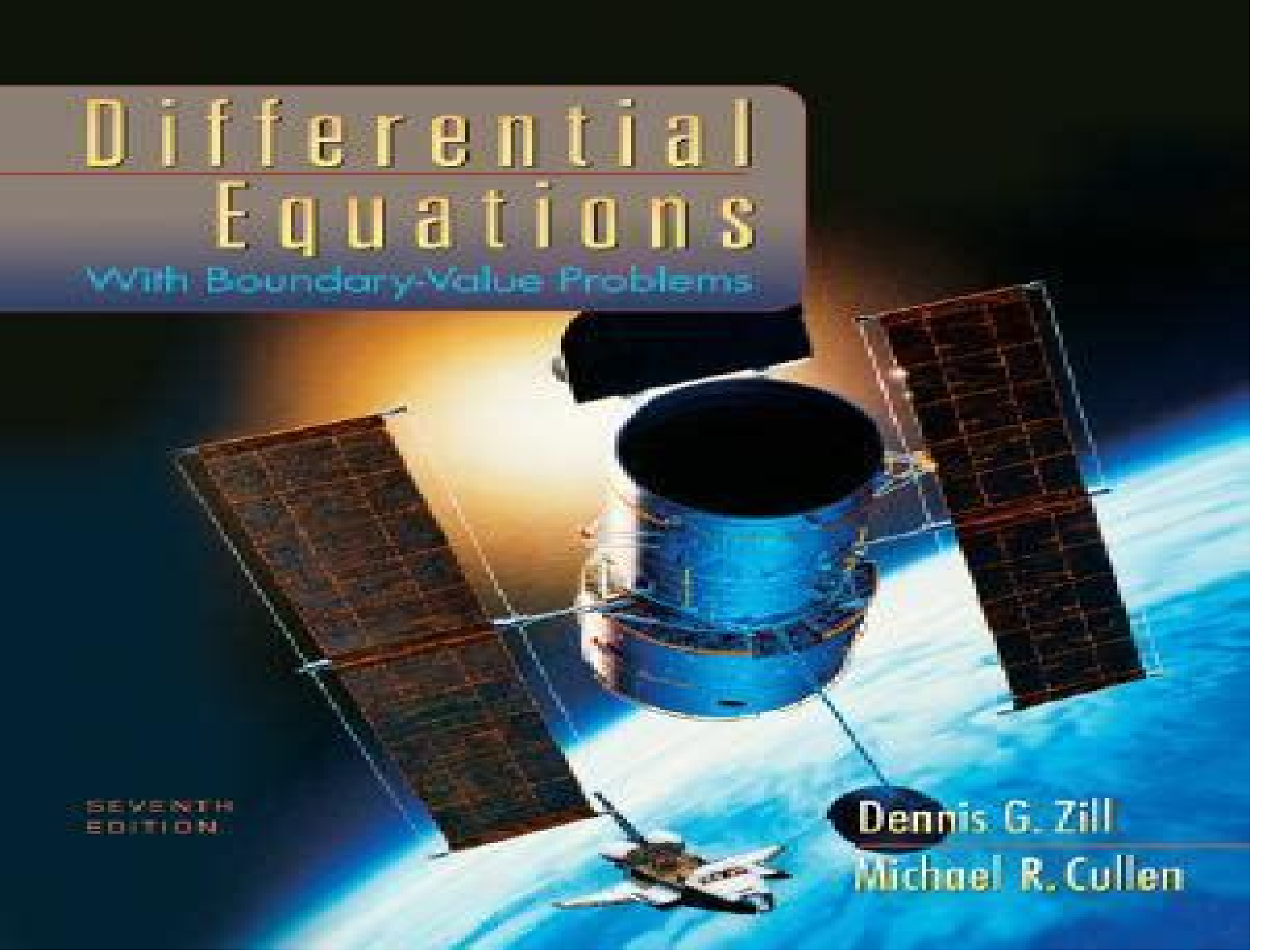
Differential Equations

With Boundary-Value Problems



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analysis as a natural extension of the calculus of real valued functions The mechanism for doing so is the extension theorem which states that any real analytic function extends to an analytic function defined in a region of the complex plane The connection to real functions and calculus is then natural The introduction to analytic functions feels intuitive and their fundamental properties are covered quickly As a result the book allows a surprisingly large coverage of the classical analysis topics of analytic and meromorphic functions harmonic functions contour integrals and series representations conformal maps and the Dirichlet problem It also introduces several more advanced notions including the Riemann hypothesis and operator theory in a manner accessible to undergraduates The last chapter describes bounded linear operators on Hilbert and Banach spaces including the spectral theory of compact operators in a way that also provides an excellent review of important topics in linear algebra and provides a pathway to undergraduate research topics in analysis The book allows flexible use in a single semester full year or capstone course in complex analysis Prerequisites can range from only multivariate calculus to a transition course or to linear algebra or real analysis There are over one thousand exercises of a variety of types and levels Every chapter contains an essay describing a part of the history of the subject and at least one connected collection of exercises that together comprise a project level exploration **Calculus: Early Transcendentals** Dennis G. Zill,Zill,Warren S. Wright,2009-12-11 Appropriate for the traditional three term college calculus course Calculus Early Transcendentals Fourth Edition provides the student friendly presentation and robust examples and problem sets for which Dennis G Zill is known This outstanding revision incorporates all of the exceptional learning tools that have made Zill s texts a resounding success He carefully blends the theory and application of important concepts while offering modern applications and problem solving skills Click here to learn more about WebAssign and view a sample assignment Available with WebAssign View sample assignment here Includes a balance of skill and concepts in the exercises that are at a graded level of difficulty Each exercise set is clearly partitioned into groups of problems using headings such as Fundamentals Applications Mathematical Models Projects Calculator CAS Problems etcEach chapter opens with its own table of contents and an introduction to the material covered in the chapter The text ends with Resource Pages which is a compact review of basic concepts from algebra geometry trigonometry and calculus Many of the topics cover in the Resources Page are discussed in greater depth in the Student Resources Guide The Test Yourself section is a self test consisting of 56 questions on four broad areas of precalculus and encourages students to review the more essential prerequisite subjects that are used throughout the text Notes from the Classroom sections are informal discussions that are aimed at the student and discuss common algebraic procedural and notational errors as well as provide advice and questions asking students to think about and extend upon the ideas just presented Instructor s resources include a complete solutions manual and test items Introduces calculus concepts and topics in a clear concise manner for maximum student retention Straightforward exposition at a level accessible to today s college students Includes examples and applications ideal for science and engineering

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