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ELEMENTARY DIFFERENTIAL EQUATIONS AND ELEMENTARY DIFFERENTIAL EQUATIONS WITH BOUNDARY VALUE PROBLEMS William F. Trench Andrew G. Cowles Distinguished Professor Emeritus Department of Mathematics Trinity University San Antonio, Texas, USA wtrench@trinity.edu This book has been judged to meet the evaluation criteria set by the Edi-

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of numerous technical papers in boundary value problems and random differential equations and their applications. He is the author of several textbooks including two differential equations texts, and is the coauthor (with M.H. Holmes, J.G. Ecker, and W.L. Siegmann) of a text on using Maple to explore Calculus. He is also coau-

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Elementary Differential Equations and Boundary Value Problems-Second Edition. The book was published in 1969 by John Wiley & Sons Inc and written by William E Boyce and Richard C. DiPrima. The cover is in good condition with some wear and aging. There's also some scratches and discoloration. The inside pages are in great shape.

Elementary Differential Equations and Boundary Value ...

Trench, William F., "Student Solutions Manual for Elementary Differential Equations and Elementary Differential Equations with Boundary Value Problems" (2000). Faculty Authored and Edited Books & CDs. 10. <https://digitalcommons.trinity.edu/mono/10>

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Elementary Differential Equations with Boundary Value Problems integrates the underlying theory, the solution procedures, and the numerical/computational aspects of differential equations in a seamless way that provides students with the necessary framework to understand and solve differential equations. Theory is presented as simply as possible with an emphasis on how to use it. With an emphasis on linear equations, linear and nonlinear equations (first order and higher order) are treated in separate chapters. In developing mathematical models, this text guides the student carefully through the underlying physical principles leading to the relevant mathematics. Asking students to use common sense, intuition, and 'back-of-the-envelope' checks as well as challenging them to anticipate and interpret the physical content of the solution encourage critical thinking. MARKET: Intended for use in introductory course in differential equations that includes boundary value problems.

Homework help! Worked-out solutions to select problems in the text.

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For courses in differential equations. This book, with enough material for 2 terms, provides a concrete and readable text for the traditional course in elementary differential equations that science, engineering, and mathematics students take following calculus. This is a strongly algebraic-oriented text with some computer enhancements for numerical methods. Matters of definition, classification, and logical structure deserve (and receive here) careful attention for the first time in the mathematical experience of many of the students. While it is neither feasible nor desirable to include proofs of the fundamental existence and uniqueness theorems along the way in an elementary course, students need to see precise and clear-cut statements of these theorems, and understand their role in the subject. Appropriate existence and uniqueness proofs in the Appendix are included, and referred to where appropriate in the main body of the text.

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