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## **Differential Equations** - Robert P. Gilbert 2021-06-28

This book illustrates how MAPLE can be used to supplement a standard, elementary text in ordinary and partial differential equation. MAPLE is used with several purposes in mind. The authors are firm believers in the teaching of mathematics as an experimental science where the student does numerous calculations and then synthesizes these experiments into a general theory. Projects based on the concept of writing generic programs test a student's understanding of the theoretical material of the course. A student who can solve a general problem certainly can solve a specialized problem. The authors show MAPLE has a built-in program for doing these problems. While it is important for the student to learn MAPLE'S in built programs, using these alone removes the student from the conceptual nature of differential equations. The goal of the book is to teach the students enough about the computer algebra system MAPLE so that it can be used in an investigative way. The investigative materials which are present in the book are done in desk calculator mode DCM, that is the calculations are in the order command line followed by output line. Frequently, this approach eventually leads to a program or procedure in MAPLE designated by proc and completed by end proc. This book was developed through ten years of instruction in the differential equations course. Table of Contents 1. Introduction to the Maple DEtools 2. First-order Differential Equations 3. Numerical Methods for First Order Equations 4. The Theory of Second Order

Differential Equations with Con- 5. Applications of Second Order Linear Equations 6. Two-Point Boundary Value Problems, Catalytic Reactors and 7. Eigenvalue Problems 8. Power Series Methods for Solving Differential Equations 9. Nonlinear Autonomous Systems 10. Integral Transforms Biographies Robert P. Gilbert holds a Ph.D. in mathematics from Carnegie Mellon University. He and Jerry Hile originated the method of generalized hyperanalytic function theory. Dr. Gilbert was professor at Indiana University, Bloomington and later became the Unidel Foundation Chair of Mathematics at the University of Delaware. He has published over 300 articles in professional journals and conference proceedings. He is the Founding Editor of two mathematics journals Complex Variables and Applicable Analysis. He is a three-time Awardee of the Humboldt-Preis, and. received a British Research Council award to do research at Oxford University. He is also the recipient of a Doctor Honoris Causa from the I. Vekua Institute of Applied Mathematics at Tbilisi State University. George C. Hsiao holds a doctorate degree in Mathematics from Carnegie Mellon University. Dr. Hsiao is the Carl J. Rees Professor of Mathematics Emeritus at the University of Delaware from which he retired after 43 years on the faculty of the Department of Mathematical Sciences. Dr. Hsiao was also the recipient of the Francis Alison Faculty Award, the University of Delaware's most prestigious faculty honor, which was bestowed on him in recognition of his scholarship, professional achievement and dedication. His primary

research interests are integral equations and partial differential equations with their applications in mathematical physics and continuum mechanics. He is the author or co-author of more than 200 publications in books and journals. Dr. Hsiao is world-renowned for his expertise in Boundary Element Method and has given invited lectures all over the world. Robert J. Ronkese holds a PhD in applied mathematics from the University of Delaware. He is a professor of mathematics at the US Merchant Marine Academy on Long Island. As an undergraduate, he was an exchange student at the Swiss Federal Institute of Technology (ETH) in Zurich. He has held visiting positions at the US Military Academy at West Point and at the University of Central Florida in Orlando.

### **Using Creativity to Address Dyslexia, Dysgraphia, and Dyscalculia**

- Fredricka Reisman 2020-11-18

Designed to help educators recognize and nurture students with dyslexia, dysgraphia, and dyscalculia, this book guides readers through best practices for using creativity theory and strategies to address the learning challenges for students who have difficulty in acquiring literacy and mathematics content. Offering concrete examples of creativity assessment and pedagogical techniques, chapters are supported by rich appendices providing assessment and screening checklists, time telling objectives, learning trouble spots, a creative approach to teaching place value, and a handy cross-referencing table. Accessible and thorough, this up-to-date guide will help educators develop strategies that acknowledge students' creative strengths to address learning challenges across the literacy and mathematics curricula.

685810 - United States Government Accountability Office 2017-09-23

FMCSA, established within the Department of Transportation in January 2000, is charged with reducing crashes involving commercial motor carriers (i.e., large trucks and buses) and saving lives. IT systems and infrastructure serve as a key enabler for FMCSA to achieve its mission. The agency reported spending about \$46 million for its IT investments in fiscal year 2016. In December 2015, the Fixing America's Surface Transportation Act was enacted and required GAO to review the agency's IT, data collection, and management systems. GAO's objectives were to

(1) assess the extent to which the agency has plans to modernize its existing systems, (2) assess the extent to which FMCSA has implemented an IT governance structure, and (3) determine the extent to which FMCSA has ensured selected IT systems are effective. To do so, GAO analyzed FMCSA's strategic plan and modernization plans; compared governance documentation to best practices; selected four investments based on operations and maintenance spending for fiscal year 2016, among other factors, and compared assessments for the investments against OMB criteria; and interviewed officials.

*Metaphysics and Hermeneutics in the Medieval Platonic Tradition* - Stephen Gersh 2020-11-10

*Metaphysics and Hermeneutics in the Medieval Platonic Tradition* consists of twelve essays originally published between 2006 and 2015, dealing with main trends and specific figures within the medieval Platonic tradition. Three essays provide general surveys of the transmission of late ancient thought to the Middle Ages with emphasis on the ancient authors, the themes, and their medieval readers, respectively. The remaining essays deal especially with certain major figures in the Platonic tradition, including pseudo-Dionysius the Areopagite, Iohannes Scottus Eriugena, and Nicholas of Cusa. The principal conceptual aim of the collection is to establish the primacy of hermeneutics within the philosophical program developed by these authors: in other words, to argue that their philosophical activity, substantially albeit not exclusively, consists of the reading and evaluation of authoritative texts. The essays also argue that the role of hermeneutics varies in the course of the tradition between being a means towards the development of metaphysical theory and being an integral component of metaphysics itself. In addition, such changes in the status and application of hermeneutics to metaphysics are shown to be accompanied by a shift from emphasizing the connection between logic and philosophy to emphasizing that between rhetoric and philosophy. The collection of essays fills in a lacuna in the history of philosophy in general between the fifth and the fifteenth centuries. It also initiates a dialogue between the metaphysical hermeneutics of

medieval Platonism and certain modern theories of hermeneutics, structuralism, and deconstruction. The book will be of special interest to students of the classical tradition in western thought, and more generally to students of medieval philosophy, theology, history, and literature.

*Irishness and Womanhood in Nineteenth-Century British Writing* -

Professor Thomas Tracy 2013-04-28

In *The Wild Irish Girl*, the powerful Irish heroine's marriage to a heroic Englishman symbolizes the Anglo-Irish novelist Lady Morgan's re-imagining of the relationship between Ireland and Britain and between men and women. Using this most influential of pro-union novels as his

point of departure, Thomas J. Tracy argues that nineteenth-century debates over what constitutes British national identity often revolved around representations of Irishness, especially Irish womanhood. He maps out the genealogy of this development, from Edgeworth's *Castle Rackrent* through Trollope's Irish novels, focusing on the pivotal period from 1806 through the 1870s. Tracy's model enables him to elaborate the ways in which gender ideals are specifically contested in fiction, the discourses of political debate and social reform, and the popular press, for the purpose of defining not only the place of the Irish in the union with Great Britain, but the nature of Britishness itself.