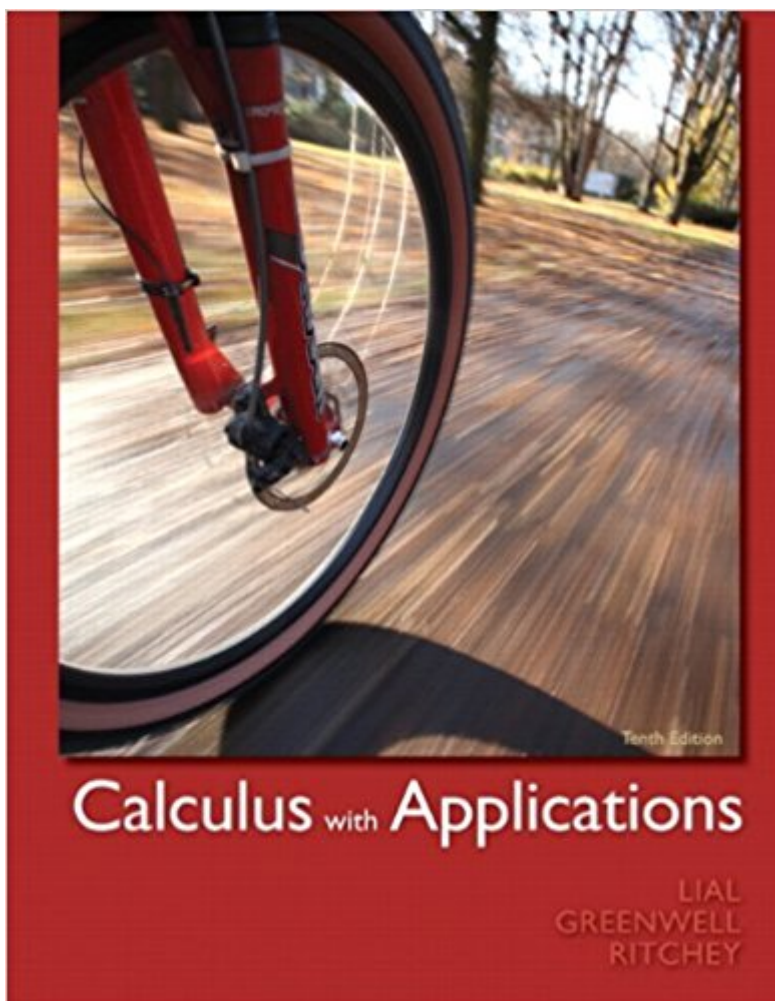




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# Calculus With Applications (10th Edition)



## Synopsis

Calculus with Applications, Tenth Edition (also available in a Brief Version containing Chapters 1–9) by Lial, Greenwell, and Ritchey, is our most applied text to date, making the math relevant and accessible for students of business, life science, and social sciences. Current applications, many using real data, are incorporated in numerous forms throughout the book, preparing students for success in their professional careers. With this edition, students will find new ways to get involved with the material, such as “Your Turn” exercises and “Apply It” vignettes that encourage active participation.   
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## Customer Reviews

Marge Lial was always interested in math; it was her favorite subject in the first grade! Marge's intense desire to educate both her students and herself has inspired the writing of numerous best-selling textbooks. Marge, who received Bachelor's and Master's degrees from California State University at Sacramento, is now affiliated with American River College. Marge is an avid reader and traveler. Her travel experiences often find their way into her books as applications, exercise sets, and feature sets. She is particularly interested in archeology. Trips to various digs and ruin sites have produced some fascinating problems for her textbooks involving

such topics as the building of Mayan pyramids and the acoustics of ancient ball courts in the Yucatan. Â Raymond N. Greenwell earned a B.A. in Mathematics and Physics from the University of San Diego, and an M.S. in Statistics, an M.S. in Applied Mathematics, and a Ph.D. in Applied Mathematics from Michigan State University, where he earned the graduate student teaching award in 1979. After teaching at Albion College in Michigan for four years, he moved to Hofstra University in 1983, where he currently is Professor of Mathematics. Â Raymond has published articles on fluid mechanics, mathematical biology, genetic algorithms, combinatorics, statistics, and undergraduate mathematics education. He is a member of MAA, AMS, SIAM, NCTM, and AMATYC. He is currently (2002-2005) governor of the Metropolitan New York Section of the MAA, as well as webmaster and liaison coordinator, and he received a distinguished service award from the Section in 2003. He is an outdoor enthusiast and leads trips in the Sierra Clubâ™s Inner City Outings program. Â Nathan P. Ritchey earned a B.A. in Mathematics with a minor in Music from Mansfield University of Pennsylvania. He earned a M.S. in Applied Mathematics and a Ph.D. in Mathematics from Carnegie Mellon University. He is currently a Professor of Mathematics and Chair of the Department of Mathematics and Statistics at Youngstown State University. He has published articles in economics, honors education, medicine, mathematics, operations research, and student recruitment. Nate is a Consultant/Evaluator for the North Central Association's Higher Learning Commission and regularly participates in program evaluations. Â In recognition of his numerous activities, Nate has received the Distinguished Professor Award for University Service, the Youngstown Vindicator's "People Who Make a Difference Award," the Watson Merit Award for Department Chairs, the Spirit in Education Award from the SunTex corporation, and the Provost's Merit Award for significant contributions to the Honors Program. A father of four children, Nate enthusiastically coaches soccer and softball. He also loves music, playing several instruments, and is a tenor in the Shenango Valley Chorale. More information about Nate Ritchey can be found at: <http://www.as.yosu.edu/~nate/> Â

Lial has written a really excellent book here. It is somewhat different from the typical calculus books one reads: there is less formalism and greater appeal to your intuition (hence the title). Lial works hard to ground the book to reality, so is it useful and applicable, rather than just an exercise in superficial algebraic regurgitation as so many others teach calculus to be. This is a work that wants you to understand not only how...but why! This is a truly important approach: because if you understand why, then you understand how and you have the flexibility to really use the calculus. Just knowing how means you lose some of the connection and treat it as a process rather than a

tool. This book at times feels deep, like the philosophy of calculus in addition to a howto, not just a perfunctory, dry how-to. Lial provides realistic examples and focus attention on scientific and practical uses of calculus: eg motion down an inclined plane, projectiles, etc. There are lots of problems in each section. ONLY complaint: the answers are a little sparse at times. Generally the problems are robust and a little tricky know and then (this is good! Makes you interpret and apply...not just apply). The literacy components are quite strong in questions. Kline has an excellent teaching pedagogy! The style of writing is excellent, familiar and warm. Lial writes like he is like that smart, cool, friendly lecturer we found once at university and longed for the rest of the time we were there. He clearly loves what he is teaching and wants you to succeed and tries to help you to do so. His language is not so stilted as most mathematics books seem to be; humor creeps in here and there which is cool because it makes you feel welcome inside the book, not just a nobody to whom the author is indifferent. The book is arranged in a typical sequence (you can look inside the book and see that). And is the best value for money calculus book I have EVER seen: it is VERY good. If you want a book of calculus problems buy Schaum's...but if you want to understand calculus...buy this! of course this is an introductory calculus book so there is no vector calculus, but it does get multivariate! In all: well worth the 5 stars and the cool price! Shame more books are not like this one.

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