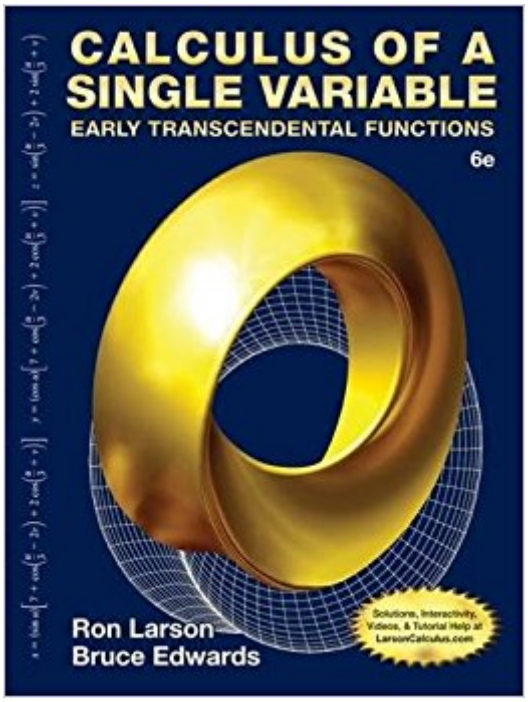
Calculus Of A Single Variable: Early Transcendental Functions



Synopsis

CALCULUS OF A SINGLE VARIABLE: EARLY TRANSCENDENTAL FUNCTIONS, Sixth Edition, offers students innovative learning resources. Every edition from the first to the sixth of CALCULUS: EARLY TRANSCENDENTAL FUNCTIONS has made the mastery of traditional calculus skills a priority, while embracing the best features of new technology and, when appropriate, calculus reform ideas.

Book Information

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Customer Reviews

1. PREPARATION FOR CALCULUS. Graphs and Models. Linear Models and Rates of Change. Functions and Their Graphs. Fitting Models to Data. Inverse Functions. Exponential and Logarithmic Functions. Review Exercises. P.S. Problem Solving. 2. LIMITS AND THEIR PROPERTIES. A Preview of Calculus. Finding Limits Graphically and Numerically. Evaluating Limits Analytically. Continuity and One-Sided Limits. Infinite Limits. Section Project: Graphs and Limits of Trigonometric Functions. Review Exercises. P.S. Problem Solving. 3. DIFFERENTIATION. The Derivative and the Tangent Line Problem. Basic Differentiation Rules and Rates of Change. Product and Quotient Rules and Higher-Order Derivatives. The Chain Rule. Implicit Differentiation. Section Project: Optical Illusions. Derivatives of Inverse Functions, Related Rates. Newton’s Method. Review Exercises. P.S. Problem Solving. 4. APPLICATIONS OF DIFFERENTIATION. Extrema on an Interval. Rolle’s Theorem and the Mean Value Theorem. Increasing and Decreasing Functions and the First Derivative Test. Section Project: Rainbows. Concavity and the Second Derivative Test.

Limits at Infinity. A Summary of Curve Sketching. Optimization Problems. Section Project: Connecticut River. Differentials. Review Exercises. P.S. Problem Solving. 5. INTEGRATION. Antiderivatives and Indefinite Integration. Area. Riemann Sums and Definite Integrals. The Fundamental Theorem of Calculus. Section Project: Demonstrating the Fundamental Theorem. Integration by Substitution. Numerical Integration. The Natural Logarithmic Function: Integration. Inverse Trigonometric Functions: Integration. Hyperbolic Functions. Section Project: St. Louis Arch. Review Exercises. P.S. Problem Solving. 6. DIFFERENTIAL EQUATIONS. Slope Fields and Euler's Method. Differential Equations: Growth and Decay. Differential Equations: Separation of Variables. The Logistic Equation. First-Order Linear Differential Equations. Section Project: Weight Loss. Predator-Prey Differential Equations. Review Exercises. P.S. Problem Solving. 7. APPLICATIONS OF INTEGRATION. Area of a Region Between Two Curves. Volume: The Disk Method. Volume: The Shell Method. Section Project: Saturn. Arc Length and Surfaces of Revolution. Work. Section Project: Tidal Energy. Moments, Centers of Mass, and Centroids. Fluid Pressure and Fluid Force. Review Exercises. P.S. Problem Solving. 8. INTEGRATION TECHNIQUES, L'HOPITAL'S RULE, AND IMPROPER INTEGRALS. Basic Integration Rules. Integration by Parts. Trigonometric Integrals. Section Project: Power Lines. Trigonometric Substitution. Partial Fractions. Integration by Tables and Other Integration Techniques. Indeterminate Forms and L'Hopital's Rule. Improper Integrals. Review Exercises. P.S. Problem Solving. 9. INFINITE SERIES. Sequences. Series and Convergence. Section Project: Cantor's Disappearing Table. The Integral Test and p-Series. Section Project: The Harmonic Series. Comparisons of Series. Section Project: Solera Method. Alternating Series. The Ratio and Root Tests. Taylor Polynomials and Approximations. Power Series. Representation of Functions by Power Series. Taylor and Maclaurin Series. Review Exercises. P.S. Problem Solving. 10. CONICS, PARAMETRIC EQUATIONS, AND POLAR COORDINATES. Conics and Calculus. Plane Curves and Parametric Equations. Section Project: Cycloids. Parametric Equations and Calculus. Polar Coordinates and Polar Graphs. Section Project: Anamorphic Art. Area and Arc Length in Polar Coordinates. Polar Equations of Conics and Kepler's Laws. Review Exercises. P.S. Problem Solving. Appendix A: Proofs of Selected Theorems (Web). Appendix B: Integration Tables. Appendix C: Pre-calculus Review (Web). Appendix C1: Real Numbers and the Real Number Line. Appendix C2: The Cartesian Plane. Appendix C3: Review of Trigonometric Functions. Appendix D: Rotation and the General Second-Degree Equation (Web). Appendix E: Complex Numbers (Web).

Dr. Ron Larson is a professor of mathematics at The Pennsylvania State University, where he has

taught since 1970. He received his Ph.D. in mathematics from the University of Colorado and is considered the pioneer of using multimedia to enhance the learning of mathematics, having authored over 30 software titles since 1990. Dr. Larson conducts numerous seminars and in-service workshops for math educators around the country about using computer technology as an instructional tool and motivational aid. He is the recipient of the 2014 William Holmes McGuffey Longevity Award for CALCULUS: EARLY TRANSCENDENTAL FUNCTIONS, the 2013 Text and Academic Authors Association Award for CALCULUS, the 2012 William Holmes McGuffey Longevity Award for CALCULUS: AN APPLIED APPROACH, and the 1996 Text and Academic Authors Association TEXTY Award for INTERACTIVE CALCULUS (a complete text on CD-ROM that was the first mainstream college textbook to be offered on the Internet). Dr. Larson authors numerous textbooks including the bestselling Calculus series published by Cengage.Dr. Bruce H. Edwards is Professor of Mathematics at the University of Florida. Professor Edwards received his B.S. in Mathematics from Stanford University and his Ph.D. in Mathematics from Dartmouth College. He taught mathematics at a university near BogotÃƒÂ¡, Colombia, as a Peace Corps volunteer. While teaching at the University of Florida, Professor Edwards has won many teaching awards, including Teacher of the Year in the College of Liberal Arts and Sciences, Liberal Arts and Sciences Student Council Teacher of the Year, and the University of Florida Honors Program Teacher of the Year. He was selected by the Office of Alumni Affairs to be the Distinguished Alumni Professor for 1991-1993. Professor Edwards has taught a variety of mathematics courses at the University of Florida, from first-year calculus to graduate-level classes in algebra and numerical analysis. He has been a frequent speaker at research conferences and meetings of the National Council of Teachers of Mathematics. Professor Edwards has produced five mathematics courses for the Great Courses (The Teaching Company). He has also coauthored a wide range of award winning mathematics textbooks with Professor Ron Larson.

This text is one of the best thing that has happened to me. I am literally reading it all, that is from CH01 to CH15. I started it on February of this year (2015) and I am in CH11 now. Will probably finish it in 4 more months.For math lovers: Don’t worry it does not really take that long to read all the chapters, it might actually take just about 8 months at most to 1 year, perhaps less, say 6 months? The reason why it is taking me so long is because I have a full time job and I’m also taking other classes, so I only get to read it twice a week, that is a section per day, and work on Exercise problems also twice a week (different days).About the book: This book is very comprehensive. There are some people who say that most of the examples don’t explain much, well in reality they

are straight forward, and most of the basic stuff, such as algebraic or trigonometric calculations is omitted from the example, which is logic because if all of the calculations were developed through this text then it would probably be much longer, like 2000 pages? And besides before taking any Calculus course you ought to know the basic stuff in your head already, correct? Like algebra, trigonometry, geometry, arithmetic. However, if you have a base knowledge on algebra and trigonometry and forgot some of the stuff, don't panic. You have CH 01 and the appendixes for review of this stuff.Bottom line: Like in life, not everything is pink color and flowers and roses-figurative speaking-I have had my hard moments with this text like anyone who is studying calculus, if you are a math lover, and by that I mean you really love math because there are some people who say "oh I love math but calculus sucks" no! I'm talking real math lovers, then you'll get through it. The hardest chapter for me so far was CH09: Infinite Series, I still don't like it that much, but I managed to learn the material at the end.Furthermore, I love how this book is made. Everything is so neat and organized. Well, actually the majority of college textbooks are neat and organized, but this one is outstanding. What I mean is for instance: There is not a single example through the chapters that covers more than a single page. In other math textbooks, like one that I have for Differential Equations, I have seen that the example starts on one page and ends on the next page. To me that's a con because you have to turn the page back and ford in order to figure out the context in the example. This textbook, in the other hand has all of the examples neatly organized. You don't have to be turning the pages to see the entire example and that's a super plus because you get to cover more material in less time.

They say this is one of the better Calculus and Analytic Geometry textbooks out there. I have mixed reviews...This does give you good information on the subject but the problems are very "here and there". I wish that the problems were progressive in the sense that they started off in the easiest example and gradually got harder. I had a PHENOMENAL Calc professor and would say I learned more from him then from this textbook. For an easy "read" (lol) be extremely well versed in Trig, logarithms and advanced Algebra. This is a great book for Engineering majors.

I recently decided to take a course in calculus as a refresher after a career in engineering that spanned 40+ years. This is the book that was required for the course. At first I felt a little sticker shock compared to the books I bought (and still have) from back in the day but this book is well worth the money. It is a thorough treatment of the subject with clear explanations of the concepts and methodologies for solving complex problems, augmented by great graphics. The publisher also

provides great on-line resources that students can use to check their work. The book is a definite 'keeper' for those with academic or technical career goals. My old books need to make room on the shelf; this one is so much better.

It's a good textbook, but not stellar. There's a lot of examples that help you with calculus and even answers with work are on calcchat.com if you need it. It's giant and can provide you with three semesters of calculus in college if they keep using the same textbook.

Not hard cover. Just a bunch of loose leaf sheets with no binder. Shipping took over a week. Will be needing a refund asap.

This book was advertised as being in "good" condition but I received it in "very good" condition. Apparently it was exposed to humid conditons at one time or another but the pages are clean (no marking or folds) and crisp and the binding is in good shape. I had purchased the calculus multiple variable book not realizing there was a single variable companion until to looked at the page numbers. The books were written with graphing calculators in mind as well. Because it was published in 1994 I had pretty much given up hope of finding this companion book. I was happy to find it offered at a very nice price and in very good condition. I am very pleased with this purchase. This will definitely help me in my efforts to understand advanced scientific research material.

If my son would actually use this book the way it was intended, he'd get five stars as well. It will serve as a great reference for me as I return to school.

This book is great for Calculus course (I, II and III). It gives thorough explanation with examples to help students understand the concepts. The book is also a good choice for self study as it guides you through all materials that students need to know for the course. The website for answers to the practice/homework problems also is included inside the book (those that do not provide at the end of the book).

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