1. Record Nr. UNINA9910153251703321

Autore	Briggs William L.
Titolo	Calculus / / William Briggs [and three others]
Pubbl/distr/stampa	Harlow, England : , : Pearson, , [2015] ©2015
ISBN	1-292-06253-3
Edizione	[Second, Global edition.]
Descrizione fisica	1 online resource (1,326 pages) : illustrations
Disciplina	515
Soggetti	Calculus
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Cover -- Title -- Copyright -- Contents -- Preface -- Credits -- 1 Functions -- 1.1 Review of Functions -- 1.2 Representing Functions -- 1.3 Trigonometric Functions -- Review Exercises -- 2 Limits -- 2.1 The Idea of Limits -- 2.2 Definitions of Limits -- 2.3 Techniques for Computing Limits -- 2.4 Infinite Limits -- 2.5 Limits at Infinity -- 2.6 Continuity -- 2.7 Precise Definitions of Limits -- Review Exercises -- 3 Derivatives -- 3.1 Introducing the Derivative -- 3.2 Working with Derivatives -- 3.3 Rules of Differentiation -- 3.4 The Product and Quotient Rules -- 3.5 Derivatives of Trigonometric Functions -- 3.6 Derivatives as Rates of Change -- 3.7 The Chain Rule -- 3.8 Implicit Differentiation -- 3.9 Related Rates -- Review Exercises -- 4 Applications of the Derivative -- 4.1 Maxima and Minima -- 4.2 What Derivatives Tell Us -- 4.3 Graphing Functions -- 4.4 Optimization Problems -- 4.5 Linear Approximation and Differentials -- 4.6 Mean Value Theorem -- 4.7 L'Hopital's Rule -- 4.8 Newton's Method -- 4.9 Antiderivatives -- Review Exercises -- 5 Integration -- 5.1 Approximating Areas under Curves -- 5.2 Definite Integrals -- 5.3 Fundamental Theorem of Calculus -- 5.4 Working with Integrals -- 5.5 Substitution Rule -- Review Exercises -- 6 Applications of Integration -- 6.1 Velocity and Net Change -- 6.2 Regions Between Curves -- 6.3 Volume by Slicing -- 6.4 Volume by Shells -- 6.5 Length of Curves -- 6.6 Surface Area -- 6.7 Physical Applications -- Review Exercises -- 7 Logarithmic and Exponential Functions -- 7.1 Inverse Functions -- 7.2 The Natural Logarithmic and Exponential Functions -- 7.3 Logarithmic

and Exponential Functions with Other Bases -- 7.4 Exponential Models -- 7.5 Inverse Trigonometric Functions -- 7.6 L'Hopital's Rule and Growth Rates of Functions -- 7.7 Hyperbolic Functions -- Review Exercises -- 8 Integration Techniques.
8.1 Basic Approaches -- 8.2 Integration by Parts -- 8.3 Trigonometric Integrals -- 8.4 Trigonometric Substitutions -- 8.5 Partial Fractions -- 8.6 Other Integration Strategies -- 8.7 Numerical Integration -- 8.8 Improper Integrals -- 8.9 Introduction to Differential Equations -- Review Exercises -- 9 Sequences and Infinite Series -- 9.1 An Overview -- 9.2 Sequences -- 9.3 Infinite Series -- 9.4 The Divergence and Integral Tests -- 9.5 The Ratio, Root, and Comparison Tests -- 9.6 Alternating Series -- Review Exercises -- 10 Power Series -- 10.1 Approximating Functions with Polynomials -- 10.2 Properties of Power Series -- 10.3 Taylor Series -- 10.4 Working with Taylor Series -- Review Exercises -- 11 Parametric and Polar Curves -- 11.1 Parametric Equations -- 11.2 Polar Coordinates -- 11.3 Calculus in Polar Coordinates -- 11.4 Conic Sections -- Review Exercises -- 12 Vectors and Vector-Valued Functions -- 12.1 Vectors in the Plane -- 12.2 Vectors in Three Dimensions -- 12.3 Dot Products -- 12.4 Cross Products -- 12.5 Lines and Curves in Space -- 12.6 Calculus of Vector-Valued Functions -- 12.7 Motion in Space -- 12.8 Length of Curves -- 12.9 Curvature and Normal Vectors -- Review Exercises -- 13 Functions of Several Variables -- 13.1 Planes and Surfaces -- 13.2 Graphs and Level Curves -- 13.3 Limits and Continuity -- 13.4 Partial Derivatives -- 13.5 The Chain Rule -- 13.6 Directional Derivatives and the Gradient -- 13.7 Tangent Planes and Linear Approximation -- 13.8 Maximum/Minimum Problems -- 13.9 Lagrange Multipliers -- Review Exercises -- 14 Multiple Integration -- 14.1 Double Integrals over Rectangular Regions -- 14.2 Double Integrals over General Regions -- 14.3 Double Integrals in Polar Coordinates -- 14.4 Triple Integrals -- 14.5 Triple Integrals in Cylindrical and Spherical Coordinates -- 14.6 Integrals for Mass Calculations.
14.7 Change of Variables in Multiple Integrals -- Review Exercises -- 15 Vector Calculus -- 15.1 Vector Fields -- 15.2 Line Integrals -- 15.3 Conservative Vector Fields -- 15.4 Green's Theorem -- 15.5 Divergence and Curl -- 15.6 Surface Integrals -- 15.7 Stokes' Theorem -- 15.8 Divergence Theorem -- Review Exercises -- A Appendix Algebra Review -- B Appendix Proofs of Selected Theorems -- Answers -- Index -- Table of Integrals.

Sommario/riassunto

For a three-semester or four-quarter calculus course covering single variable and multivariable calculus for mathematics, engineering, and science majors. This much anticipated second edition of the most successful new calculus text published in the last two decades retains the best of the first edition while introducing important advances and refinements. Authors Briggs, Cochran, and Gillett build from a foundation of meticulously crafted exercise sets, then draw students into the narrative through writing that reflects the voice of the instructor, examples that are stepped out and thoughtfully annotated, and figures that are designed to teach rather than simply supplement the narrative. The authors appeal to students' geometric intuition to introduce fundamental concepts, laying a foundation for the development that follows. The groundbreaking eBook contains over 650 Interactive Figures that can be manipulated to shed light on key concepts. This text offers a superior teaching and learning experience. Here's how: Reflects how students use a textbook-they start with the exercises and flip back for help if they need it. Organization and presentation of content facilitates learning of key concepts, skills, and applications.

2. Record Nr. UNINA9910972642903321

Autore	Levinson Bernard M
Titolo	A More Perfect Torah : At the Intersection of Philology and Hermeneutics in Deuteronomy and the Temple Scroll
Pubbl/distr/stampa	Winona Lake : , : Eisenbrauns, , 2014 ©2014
ISBN	9781575068534 1575068532
Edizione	[1st ed.]
Descrizione fisica	1 online resource (164 p.)
Collana	Critical Studies in the Hebrew Bible ; ; v. 1
Disciplina	222/.1506
Soggetti	Vows (Jewish law) Rabbinical literature - History and criticism Jewish law - Interpretation and construction Hebrew language - Syntax
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	List of Figures -- Preface -- Abbreviations -- Part 1. Revelation Regained: The Hermeneutics of X and X in the Temple Scroll / Bernard M. Levinson and Molly M. Zahn -- Chapter I. Previous Attempts to Provide a Solution: The Problem of Method -- Chapter II. An Alternative Approach: Rethinking the Problem of X -- Chapter III. The Connection between Syntax and Text -- Chapter IV. The Significance of the Manuscript’s Spacing System -- Chapter V. Redactional Smoothing as the First Trigger for the Substitution -- Chapter VI. The Inconsistent Use of X in the Pentateuch as the Second Trigger for the Substitution -- Chapter VII. Pleonastic Marking of the Protasis -- Chapter XIII. The Broader Significance of the Pleonasms -- Chapter IX. Conclusion -- Part 2 Reception History as a Window into Composition History: Deuteronomy's Law of Vowsc -- Chapter I. Introduction: Does the Sequence of Deuteronomy's Law of Vows Logically Cohere? -- Chapter II. Early Jewish and Christian Reception of Deuteronomy's Law of Vowsand Concerns about the Wisdom of Vowing -- Chapter III. Qoheleth's Revision and Reworking of Deuteronomy's Law of Vows -- Chapter IV. The Reception of the Law of Vows in Sipre Deuteronomy

and Rabbinic Literature --Chapter V. The Anomalous Sequence of Conditional Legal Statements in Deuteronomy's Law of Vows -- Chapter VI. Reworking and Expansion of Deuteronomy's Law of Vows in Numbers 30 -- Chapter VII. Conclusion --Afterword -- Appendix 1: The Use of X and X in Selected Legal Texts from Qumran --Appendix 2 -- Appendix 3 -- Bibliography -- Index of Authors -- Index of Scripture -- Index of Other Ancient Sources -- Index of Subjects.

Sommario/riassunto

The historical-critical method that characterizes academic biblical studies too often remains separate from approaches that stress the history of interpretation, which are employed more frequently in the area of Second Temple or Dead Sea Scrolls research. Inaugurating the new series, Critical Studies in the Hebrew Bible, A More Perfect Torah explores a series of test-cases in which the two methods mutually reinforce one another.The volume brings together two studies that investigate the relationship between the composition history of the biblical text and its reception history at Qumran and in rabbinic literature. The Temple Scroll is more than the blueprint for a more perfect Temple. It also represents the attempt to create a more perfect Torah. Its techniques for doing so are the focus of part 1, entitled “Revelation Regained: The Hermeneutics of KI and ‘IM in the Temple Scroll.” This study illuminates the techniques for marking conditional clauses in ancient Near Eastern literature, biblical law, and the Dead Sea Scrolls. It also draws new attention to the relationship between the Temple Scroll’s use of conditionals and the manuscript’s organized spacing system for marking paragraphs.Part 2 is entitled “Reception History as a Window into Composition History: Deuteronomy’s Law of Vows as Reflected in Qoheleth and the Temple Scroll.” The law of vows in Deut 23:22–24 is difficult in both its syntax and its legal content. The difficulty is resolved once it is recognized that the law contains an interpolation that disrupts the original coherence of the law. The reception history of the law of vows in Numbers 20, Qoh 5:4–7, 11QTemple 53:11–14, and Sipre Deuteronomy confirms the hypothesis of an interpolation. Seen in this new light, the history of interpretation offers a window into the composition history of the biblical text.