

Harold M. Edwards

Advanced Calculus: A Differential Forms Approach

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Blackwell Science

Advanced Calculus A Differential Forms Approach

Modern Birkhuser Classics

Michael Brown



Advanced Calculus A Differential Forms Approach Modern Birkhuser Classics:

Advanced Calculus Harold M. Edwards, 2013-11-10 In a book written for mathematicians teachers of mathematics and highly motivated students Harold Edwards has taken a bold and unusual approach to the presentation of advanced calculus He begins with a lucid discussion of differential forms and quickly moves to the fundamental theorems of calculus and Stokes theorem The result is genuine mathematics both in spirit and content and an exciting choice for an honors or graduate course or indeed for any mathematician in need of a refreshingly informal and flexible reintroduction to the subject For all these potential readers the author has made the approach work in the best tradition of creative mathematics This affordable softcover reprint of the 1994 edition presents the diverse set of topics from which advanced calculus courses are created in beautiful unifying generalization The author emphasizes the use of differential forms in linear algebra implicit differentiation in higher dimensions using the calculus of differential forms and the method of Lagrange multipliers in a general but easy to use formulation There are copious exercises to help guide the reader in testing understanding The chapters can be read in almost any order including beginning with the final chapter that contains some of the more traditional topics of advanced calculus courses In addition it is ideal for a course on vector analysis from the differential forms point of view The professional mathematician will find here a delightful example of mathematical literature the student fortunate enough to have gone through this book will have a firm grasp of the nature of modern mathematics and a solid framework to continue to more advanced studies The most important feature is that it is fun it is fun to read the exercises it is fun to read the comments printed in the margins it is fun simply to pick a random spot in the book and begin reading This is the way mathematics should be presented with an excitement and liveliness that show why we are interested in the subject The American Mathematical Monthly First Review An inviting unusual high level introduction to vector calculus based solidly on differential forms Superb exposition informal but sophisticated down to earth but general geometrically rigorous entertaining but serious Remarkable diverse applications physical and mathematical The American Mathematical Monthly 1994 Based on the Second Edition **The Bulletin of Mathematics Books** ,1992 **Advanced Calculus** Harold M. Edwards, 1980

American Book Publishing Record ,1996 **A Concise Course in Algebraic Topology** J. P. May, 1999-09 Algebraic topology is a basic part of modern mathematics and some knowledge of this area is indispensable for any advanced work relating to geometry including topology itself differential geometry algebraic geometry and Lie groups This book provides a detailed treatment of algebraic topology both for teachers of the subject and for advanced graduate students in mathematics either specializing in this area or continuing on to other fields J Peter May's approach reflects the enormous internal developments within algebraic topology over the past several decades most of which are largely unknown to mathematicians in other fields But he also retains the classical presentations of various topics where appropriate Most chapters end with problems that further explore and refine the concepts presented The final four chapters provide sketches of substantial areas

of algebraic topology that are normally omitted from introductory texts and the book concludes with a list of suggested readings for those interested in delving further into the field Advanced Calculus Pietro-Luciano Buono, 2016-09-12 This textbook offers a high level introduction to multi variable differential calculus Differential forms are introduced incrementally in the narrative eventually leading to a unified treatment of Green s Stokes and Gauss theorems Furthermore the presentation offers a natural route to differential geometry Contents Calculus of Vector Functions Tangent Spaces and 1 forms Line Integrals Differential Calculus of Mappings Applications of Differential Calculus Double and Triple Integrals Wedge Products and Exterior Derivatives Integration of Forms Stokes Theorem and Applications **Advanced Calculus** R. Creighton Buck, 2003-12-30 Demonstrating analytical and numerical techniques for attacking problems in the application of mathematics this well organized clearly written text presents the logical relationship and fundamental notations of analysis Buck discusses analysis not solely as a tool but as a subject in its own right This skill building volume familiarizes students with the language concepts and standard theorems of analysis preparing them to read the mathematical literature on their own The text revisits certain portions of elementary calculus and gives a systematic modern approach to the differential and integral calculus of functions and transformations in several variables including an introduction to the theory of differential forms The material is structured to benefit those students whose interests lean toward either research in mathematics or its applications **Choice** ,1993 Notices of the American Mathematical Society American Mathematical Society, 1993

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