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multivariate calculus as traditionally presented can overwhelm students who approach it directly from a one variable calculus background there is another way a highly engaging way that does not neglect readers own intuition experience and excitement one that presents the fundamentals of the subject in a two variable context and was set forth in the popular first edition of functions of two variables the second edition goes even further toward a treatment that is at once gentle but rigorous atypical yet logical and ultimately an ideal introduction to a subject important to careers both within and outside of mathematics the author's style remains informal and his approach problem oriented he takes care to motivate concepts prior to their introduction and to justify them afterwards to explain the use and abuse of notation and the scope of the techniques developed functions of two variables second edition includes a new section on tangent lines more emphasis on the chain rule a rearrangement of several chapters refined examples and more exercises it maintains a balance between intuition explanation methodology and justification enhanced by diagrams heuristic comments examples exercises and proofs

this book is aimed at mathematics students typically in the second year of a university course the first chapter however is suitable for first year students differentiable functions are treated initially from the standpoint of approximating a curved surface locally by a flat surface this enables both geometric intuition and some elementary matrix algebra to be put to effective use in chapter 2 the required theorems chain rule inverse and implicit function theorems etc are stated and proved for n variables concisely and rigorously chapter 3 deals with maxima and minima including problems with equality and inequality constraints the chapter includes criteria for discriminating between maxima minima and saddlepoints for constrained problems this material is relevant for applications but most textbooks omit it in chapter 4 integration over areas volumes curves and surfaces is developed and both the change of variable formula and the gauss green stokes set of theorems are obtained the integrals are defined with approximative sums expressed concisely by using step functions this preserves some geometrical and physical concept of what is happening consequent on this the main ideas of the differential form approach are presented in a simple form which avoids much of the usual length and complexity many examples and exercises are included

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the purpose of this book is to give a systematic development of differential and integral calculus for functions of several

variables the traditional topics from advanced calculus are included maxima and minima chain rule implicit function theorem multiple integrals divergence and stokes's theorems and so on however the treatment differs in several important respects from the traditional one vector notation is used throughout and the distinction is maintained between n dimensional euclidean space E^n and its dual the elements of the lebesgue theory of integrals are given in place of the traditional vector analysis in 3 we introduce exterior algebra and the calculus of exterior differential forms the formulas of vector analysis then become special cases of formulas about differential forms and integrals over manifolds lying in p the book is suitable for a one year course at the advanced undergraduate level by omitting certain chapters a one semester course can be based on it for instance if the students already have a good knowledge of partial differentiation and the elementary topology of p then substantial parts of chapters 4 5 7 and 8 can be covered in a semester some knowledge of linear algebra is presumed however results from linear algebra are reviewed as needed in some cases without proof a number of changes have been made in the first edition many of these were suggested by classroom experience a new chapter 2 on elementary topology has been added

this book begins with the basics of the geometry and topology of euclidean space and continues with the main topics in the theory of functions of several real variables including limits continuity differentiation and integration all topics and in particular differentiation and integration are treated in depth and with mathematical rigor the classical theorems of differentiation and integration such as the inverse and implicit function theorems lagrange's multiplier rule fubini's theorem the change of variables formula green's stokes and gauss theorems are proved in detail and many of them with novel proofs the authors develop the theory in a logical sequence building one result upon the other enriching the development with numerous explanatory remarks and historical footnotes a number of well chosen illustrative examples and counter examples clarify matters and teach the reader how to apply these results and solve problems in mathematics the other sciences and economics each of the chapters concludes with groups of exercises and problems many of them with detailed solutions while others with hints or final answers more advanced topics such as morse's lemma sard's theorem the weierstrass approximation theorem the fourier transform vector fields on spheres brouwer's fixed point theorem whitney's embedding theorem picard's theorem and hermite polynomials are discussed in starred sections

a comprehensive guide to mathematics with over 200 entries divided thematically

calculus textbook

provides a thorough introduction to the algebraic theory of systems of differential equations as developed by the japanese school of m sato and his colleagues features a complete review of hyperfunction microfunction theory and the theory of d modules strikes the perfect balance between analytic and algebraic aspects

data analysis in biochemistry and biophysics describes the techniques how to derive the most amount of quantitative and statistical information from data gathered in enzyme kinetics protein ligand equilibria optical rotatory dispersion chemical relaxation methods this book focuses on the determination and analysis of parameters in different models that are used in biochemistry biophysics and molecular biology the michaelis menten equation can explain the process to obtain the maximum amount of information by determining the parameters of the model this text also explains the fundamentals present in hypothesis testing and the equation that represents the statistical aspects of a linear model occurring frequently in this field of testing this book also analyzes the ultraviolet spectra of nucleic acids particularly to establish the composition of melting regions of nucleic acids the investigator can use the matrix rank analysis to determine the spectra to substantiate systems whose functions are not known this text also explains flow techniques and relaxation methods associated with rapid reactions to determine transient kinetic parameters this book is suitable for molecular biologists biophysicists physiologists biochemists bio mathematicians statisticians computer programmers and investigators involved in related sciences

the book contains six chapters in chapter 1 the set $\mathbb{R}^n$ is defined n dimensional ball sphere and rectangular neighborhood of a point are defined sequences in $\mathbb{R}^n$ are defined by their properties open closed and compact sets in $\mathbb{R}^n$ are investigated the heine borel theorem is formulated and proved in chapter 2 functions of several variables are introduced limits of functions of several variables are defined with their properties are deducted continuous functions of several variables are investigated uniform continuity is introduced and explored in chapter 3 partial derivatives of higher order and differentials for functions of several variables and their properties are introduced criteria for the differentiability of functions of several variables are deducted gradient of a function explored directional derivatives are defined and investigated in chapter 4 higher order partial derivatives of functions of several variables are investigated the minimum and maximum of functions of several variables are introduced and investigated implicit functions are defined and explored the method of lagrange multipliers is introduced the book contains proofs numerous examples and exercises with solutions in the two last chapters

the purpose of this book is to introduce multivariate statistical methods to non mathematicians it is not intended to be

comprehensive rather the intention is to keep the details to a minimum while still conveying a good idea of what can be done in other words it is a book to get you going in a particular area of statistical methods this second edition has retained all of professor manly s crystal clear style it is based on a course that has been taught successfully at the university of otago for a number of years but has increased coverage on measuring distances between cases based on presence absence data a new selection on logistic regression new exercises and two completely new chapters on graphical methods and ordination the author has taken into account the major shift in the way in which computer software is used but the emphasis is on the underlying principles rather than the use of particular programs

calculus seems to be obscure but it is everywhere in machine learning while we rarely write code on differentiation or integration the algorithms we use have theoretical roots in calculus if you ever wondered how to understand the calculus part when you listen to people explaining the theory behind a machine learning algorithm this new ebook in the friendly machine learning mastery style that you re used to is all you need using clear explanations and step by step tutorial lessons you will understand the concept of calculus how it is relates to machine learning what it can help us on and much more

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