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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

a comprehensive guide to mathematics with over 200 entries divided thematically

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papers presented to j e littlewood on his 80th birthday issued as 3d ser v 14 a 1965

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 ex pressed 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

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

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