



Advanced Calculus

Second Edition

Patrick M. Fitzpatrick



Patrick Fitzpatrick Advanced Calculus Second Edition Solutions

Joseph B Dence, Thomas P Dence



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Advanced Calculus Patrick Fitzpatrick, 2009 Advanced Calculus is intended as a text for courses that furnish the backbone of the student's undergraduate education in mathematical analysis. The goal is to rigorously present the fundamental concepts within the context of illuminating examples and stimulating exercises. This book is self-contained and starts with the creation of basic tools using the completeness axiom. The continuity, differentiability, integrability, and power series representation properties of functions of a single variable are established. The next few chapters describe the topological and metric properties of Euclidean space. These are the basis of a rigorous treatment of differential calculus including the Implicit Function Theorem and Lagrange Multipliers for mappings between Euclidean spaces and integration for functions of several real variables. Special attention has been paid to the motivation for proofs. Selected topics such as the Picard Existence Theorem for differential equations have been included in such a way that selections may be made while preserving a fluid presentation of the essential material. Supplemented with numerous exercises, *Advanced Calculus* is a perfect book for undergraduate students of analysis.

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Topics in Calculus 2ND Edition, Solutions Manual Lowengrub, 1975-06-01 **Forthcoming Books** Rose Arny, 1997-04 **Calculus and Its Applications** Daniel D. Benice, 1997-01-01 *Solutions Manual for Calculus, One and Several Variables, Second Edition* Saturnino L. Salas, 1974 **Multivariable Calculus 2nd Edition Plus Study and Solutions Manual Volume 3 2nd Edition** Arnold Ostebee, 2005-12-01 *Advanced Calculus* Joseph B. Dence, Thomas P. Dence, 2010-07-15 Advanced Calculus explores the theory of calculus and highlights the connections between calculus and real analysis providing a mathematically sophisticated introduction to functional analytical concepts. The text is interesting to read and includes many illustrative worked out examples and instructive exercises and precise historical notes to aid in further exploration of calculus. It covers exponential function and the development of trigonometric functions from the integral. The text is designed for a one semester advanced calculus course for advanced undergraduates or graduate students.

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