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Samuel N. Cohen

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the book explains the basic concepts of calculus with their relevance to the real world problems it focuses on applications with rigorous emphasis on analysis plenty of solved examples are given to clarify techniques related to a particular theme the text is application oriented many interesting relevant and up to date applications are drawn from the fields of business economics social and behavioural sciences life sciences physical sciences and other fields of general interest applications are found in the main body of the text as well as in the exercise sets in fact it includes at least one real life application in each section wherever possible appendices discuss concepts and themes regarded as prerequisites like the number system trigonometric functions and analytic geometry proofs of many important theorems are also included this book is meant to be used for a first course in calculus addressed to

students of science and engineering

calculus of variations is one of the most important mathematical tools of great scientific significance used by scientistis and engineers unfortunately a few books that are available are written at a level which is not easily comprehensible for postgraduate students this book written by a highly respected academic presents the materials in a lucid manner so as to be within the easy grasp of the students with some background in calculus differential equations and functional analysis the aim is to give a thorough and systematic analysis of various aspects of calculus of variations

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