Calculus

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aufbauend auf grundkenntnissen der analysis und der linearen algebra behandelt dieses lehrbuch die geometrie der kegel in geordneten normierten räumen einerseits werden grundlegende konzepte wie geordnete vektorräume erläutert andererseits werden grundkenntnisse in der funktionalanalysis vorausgesetzt eigenschaften von kegeln und deren dualen kegeln in normierten räumen systematisch untersucht sowie kegel im raum der linearen stetigen operatoren behandelt diese Übersetzung vereint die beiden kleinen in

russisch erschienenen broschüren einführung in die theorie der kegel in normierten räumen und spezielle probleme der geometrie von kegeln in normierten räumen von b z wulich aus den 1970er jahren mit interessanten zusatzinformationen gespickt ist dieses buch ein glanzlicht in seinem bereich

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a comprehensive introduction to fundamental concepts in calculus and their applications covering all of calculus 1 and some of calculus 2

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convenience of the reader

this book is designed to be used for class room teaching for a course in differential calculus at the undergraduate level and also as a reference book for others who need the use of differential calculus the book is designed in accordance with the syllabus in differential calculus prescribed in most of the indian universities the following are some of the special features of this textbook in addition to the theoretical treatment of the topics in differential calculus due respect is given to application oriented approach through various illustrations and exercises drawn from practical sciences the graphical and numerical approach provided in the text enhances the appreciation and understanding of the concepts involved a large number of worked examples and exercises with answers drawn from various examination papers of indian and foreign universities are included biographical notes and historical snippets have been added with a view to motivating and inspiring the students brief life sketches and contributions of great mathematicians like sir isaac newton and leibniz form part of the book the unique and pioneering aspect of the present book is that a large number of computer programs and graphic printouts for various topics indifferential calculus are included the fascinating potential of graphics for the understanding of calculus on a computer is well brought out through computer programs which can be readily worked on an ibm compatible pc further in order to make the programs useful to students and amateurs who have access only to the popular home computers interesting programs which can be run on the very popular bbc microcomputer and sinclair spectrum have also been provided very interesting graphics of evolutes of famous curves and envelopes of families of curves along with their ready to work programs add to the value of the book

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and weir have made it their passion to improve the text in keeping with the shifts in both the preparation and ambitions of today s students

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