Calculus

Basic TheoryFractional Differential EquationsApplications in Physics, Part AApplications in Physics, Part BApplications in Engineering, Life and Social Sciences, Part BApplications in Engineering, Life and Social Sciences, Part AFractional Differential EquationsApplications in ControlNumerical MethodsProbability TheoryIntroduction to CalculusDifferential CalculusCalculus and Analytic GeometryThomas' CalculusA Textbook on Fundamentals of CalculusCalculusUniversity Calculus: Early Transcendentals, Global EditionThomas' Calculus eBook, SI EditionDifferential CalculusDifferential Calculus Anatoly Kochubei Zhi-Zhong Sun Vasily E. Tarasov Vasily E. Tarasov Dumitru B⬚leanu Dumitru B⬚leanu Anatoly Kochubei Ivo Petráš George Em Karniadakis Werner Linde John Clark H. S. Dhami Waleffe George B. Thomas, Jr. Prof. (Dr.) Chaitanya Kumar J.P. Singh Joel R. Hass George B. Thomas S Balachandra Rao Shanti Narayan

Basic Theory Fractional Differential Equations Applications in Physics, Part A Applications in Physics, Part B Applications in Engineering, Life and Social Sciences, Part B Applications in Engineering, Life and Social Sciences, Part A Fractional Differential Equations Applications in Control Numerical Methods Probability Theory Introduction to Calculus Differential Calculus Calculus and Analytic Geometry Thomas' Calculus A Textbook on Fundamentals of Calculus Calculus University Calculus: Early Transcendentals, Global Edition Thomas' Calculus eBook, SI Edition Differential Calculus Differential Calculus *Anatoly Kochubei Zhi-Zhong Sun Vasily E. Tarasov Vasily E. Tarasov Dumitru B⬚leanu Dumitru B⬚leanu Anatoly Kochubei Ivo Petráš George Em Karniadakis Werner Linde John Clark H. S. Dhami Waleffe George B. Thomas, Jr. Prof. (Dr.) Chaitanya Kumar J.P. Singh Joel R. Hass George B. Thomas S Balachandra Rao Shanti Narayan*

this multi volume handbook is the most up to date and comprehensive reference work in the field of fractional calculus and its numerous applications this first volume collects authoritative chapters covering the mathematical theory of fractional calculus including fractional order operators integral transforms and equations special functions calculus of variations and probabilistic and other aspects

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this book is intended as an introduction to probability theory and mathematical statistics for students in mathematics the physical sciences engineering and related fields it is based on the author s 25 years of experience teaching probability and is squarely aimed at helping students overcome common difficulties in

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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

differential calculus an outgrowth of the problems concerned with slope of curved lines and the areas enclosed by them has developed so much that texts are required which may lead the students directly to the heart of the subject and prepare them for challenges of the field the present book is an attempt in this regard an excellent book on differential calculus this book has been meticulously planned and numerous solved examples have been selected to make the subject interesting besides problems are given at the end of each main theorem which supplement the text and by solving them the reader can judge his level of understanding of the given facts exercises have been framed by arranging questions in such a manner that after doing illustrative examples one should not feel difficulty in solving any problem considerable material has been included here that covers a large number of courses this has been done to make the book more flexible to provide a useful book of reference and to stimulate further interest in the topics

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authors hass 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

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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