Calculus

CalculusBasic TheoryProbability TheoryCalculusApplications in Physics, Part AFractional Differential EquationsApplications in ControlApplications in Physics, Part BNumerical MethodsApplications in Engineering, Life and Social Sciences, Part BFractional Differential EquationsApplications in Engineering, Life and Social Sciences, Part AIntroduction to CalculusDifferential CalculusDifferential CalculusA Textbook on Fundamentals of CalculusCalculus and Analytic GeometryPrecalculusIntegral CalculusCalculus Howard Anton Anatoly Kochubei Werner Linde Deborah Hughes-Hallett Vasily E. Tarasov Zhi-Zhong Sun Ivo Petráš Vasily E. Tarasov George Em Karniadakis Dumitru Bǎleanu Anatoly Kochubei Dumitru Bǎleanu John Clark S Balachandra Rao H. S. Dhami Prof. (Dr.) Chaitanya Kumar Waleffe Sheldon Axler P K Mittal J.P. Singh

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time and space fractional derivatives finite differences and finite elements and spectral meshless and particle methods

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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

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

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

this book has been designed in accordance with the undergraduate curriculum framework 2022 followed by the central universities of india including university of delhi under the national education policy nep 2020 keeping in mind the need to uphold students interest in the subject vivid explanation of concepts as well as explanatory illustrations followed by exercises have been included the book is exclusively designed to help and guide the students of mathematics dsc 5 b sc hons mathematics ge 1 i b sc b a hons other than mathematics discipline a 1 and ge 1 i bachelor in multidisciplinary courses it is also useful for b tech students of various universities and for preparation of competitive examinations the students of open and distance education courses will also find the book very beneficial the salient features of the book are as follows 1 an all encompassing and self sufficient textbook for ugcf 2022 based on nep 2020 2 written in lucid and simple language 3 written with a view to present a qualitative understanding of the subject 4 comprehensive step by step explanation for easier understanding of the subject 5 many solved examples and unsolved problems have been drawn from recent examination papers of universities 6 answers to all the problems in each exercise are provided immediately after the exercise for the convenience of the reader

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this classic book is a part of bestseller series in mathematics by eminent mathematician shanti narayan it is an exhaustive foundation text on integral calculus and primarily caters to the undergraduate courses of b sc and ba

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