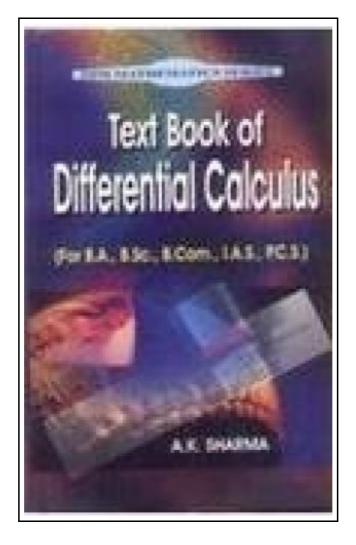
# Text Book of Differential Calculus, (For B.A., B.Sc., B.Com., I.A.S., P.C.S.)



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# TEXT BOOK OF DIFFERENTIAL CALCULUS, (FOR B.A., B.SC., B.COM., I.A.S., P.C.S.)



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Discovery Publishing House Pvt. Ltd., 2011. Hardcover. Book Condition: New. This book on Differential Calculus has been written for the use of the students of degree and honours Classes of Indian Universities. The subject matter has been discussed in such a simple way that the students will find no difficulty to understand it. The Theories and articles have been explained in detailed in a nice manner and all the examples have been completely solved. Self practice problems in each chapter will Help students self evaluation. Hints and answers to self practice problems enable to students Learn at their own pace. The book contains almost all the questions set at various examinations held by Indian Universities and it covers to syllabi of all Indian Universities. The author will feel amply rewarded if the book serves the Purpose for which it is meant. Suggestion for the improvement of the book will be gratefully accepted. Contents, I. FUNCTION OF REAL VARIABLE, LIMITS, CONTINUITY AND DIFFERENTIABILITY: Constant, Variable, Function, Types of Functions, Definition Limit, Limit of Inequalities, Algebra of Limits, Continuity, Continuity of Elementary Function, Continuity of Sum Products, Differentiability II. ROLLE'S THEOREM, MEAN VALUE THEOREMS, TAYLOR'S AND MACLAURIN'S THEOREMS: Rolle's Theorem, Lagrange's Mean Value Theorem or First Mean Value Theorem, Some Important Deductions from Mean Value Theorem, Cauchy`s Mean Value Theorem or Second Mean Value Theorem, Taylor`s Theorem with Lagrange's form of Remainder after n Terms, Taylor's Theorem with Cauchy's form of Remainder III. DIFFERENTIATION: Definition, Some Standard Results, Differential Coefficient of a Function of a Function, Inverse Hyperbolic Functions, Hyperbolic Functions, Some More Methods of Differentiation, List of Standard Results to be Committed to Memory IV. SUCCESSIVE DIFFERENTIATION: Definition, Standard Results, Leibnitz's Theorem V. EXPANSIONS OF FUNCTIONS: Taylor`s Series, Maclaurin`s Series, Normal Expansions of Functions, some Important...

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