



Introduction to Differential Calculus: Systematic Studies with Engineering Applications for Beginners (Hardback)

By Ulrich L. Rohde, G. c. Jain, Ajay K. Poddar

John Wiley Sons Inc, United States, 2012. Hardback. Book Condition: New. 244 x 169 mm. Language: English . Brand New Book. Enables readers to apply the fundamentals of differential calculus to solve real-life problems in engineering and the physical sciences Introduction to Differential Calculus fully engages readers by presenting the fundamental theories and methods of differential calculus and then showcasing how the discussed concepts can be applied to real-world problems in engineering and the physical sciences. With its easy-to-follow style and accessible explanations, the book sets a solid foundation before advancing to specific calculus methods, demonstrating the connections between differential calculus theory and its applications. The first five chapters introduce underlying concepts such as algebra, geometry, coordinate geometry, and trigonometry. Subsequent chapters present a broad range of theories, methods, and applications in differential calculus, including: * Concepts of function, continuity, and derivative * Properties of exponential and logarithmic function * Inverse trigonometric functions and their properties * Derivatives of higher order * Methods to find maximum and minimum values of a function * Hyperbolic functions and their properties Readers are equipped with the necessary tools to quickly learn how to understand a broad range of current problems throughout the physical...



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