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Engineering Mathematics", 5th ed, Sokolniko and Redhe er, \Mathematics and Physics of Modern Engineering" (McGraw-Hill), K F Riley \Mathematical methods for the Physical Sci-ences" (CUP) The Schaum Series book \Calculus" contains all the worked examples you could wish for Contents 1 The partial derivative First and higher partial derivatives

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multiple integration, integral calculus 3 To apply these methods to solve mathematical problems and its applications 4 To analyze problems and evaluate 5 To solve and evaluate the problems using differential equations, multiple integration, integral V Ramana, 'Higher Engineering Mathematics', Tata McGraw Hill Publications, (2007

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4 Complex integration: Cauchy integral theorem and Cauchy integral formulas Definite integral of a complex-valued function of a real variable Consider a complex valued function  $f(t)$  of a real variable  $t$ :  $f(t) = u(t) + iv(t)$ , which is assumed to be a piecewise continuous function defined in the closed interval  $a \leq t \dots$

#### **With effect from the Academic year 2018-2019**

To introduce the concepts of functions of several variables and multiple integrals To study vector differential and integral calculus 5 BV Ramana, Higher Engineering Mathematics, 23rd reprint, 2015 6 NP Bali and M Goyal,

#### **Math 13 – An Introduction to Abstract Mathematics**

Foundations of Higher Mathematics, Peter Fletcher and C Wayne Patty, 3th ed 2000, Brooks-Cole are old course textbooks for Math 13 Both are readable and concise with good exercises Learning Outcomes 1 Developing the skills necessary to read and practice abstract mathematics

#### **Maths for Physics**

Mathematics is an integral component of all of the scientific disciplines, but for physics, it is a vital and essential skill that anyone who chooses to study this subject must master Mathematics allows a physicist to understand a range of important concepts, model physical scenarios, and solve problems

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