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Numbers, Functions and Calculus Martin C. R. Cockett,Graham Doggett,2003

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for Chemists is ideally suited for students who have a limited mathematical background and who wish to build their confidence in the use of mathematics that is relevant to their chemistry studies John Gormally has many years experience of teaching mathematics to chemistry students and has set out specifically to address common difficulties in understanding the subject Assuming little knowledge of mathematics this book first introduces basic skills in handling numbers before covering key topics relevant to chemistry including functions elementary algebraic manipulation differential and integral calculus and matrix algebra The order of the chapters reflects the way in which chemistry courses are often structured and relates to both lecture and laboratory courses Self test questions are provided within the text and answers are given at the end of each chapter Together with the numerous worked examples and sets of graded problems provided these will help students to acquire relevant skills and gain confidence

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Chemical Calculations Paul Yates, 2007-02-27 Many undergraduate students enter into chemistry courses from a wide range of backgrounds often possessing various levels of experience with the mathematical concepts necessary for carrying out practical calculations in chemistry *Chemical Calculations Mathematics for Chemistry Second Edition* provides a unified student friendly reference

Basic Mathematics for Chemists Peter Tebbutt, 1998-06-29 *Basic Mathematics for Chemists* aims to teach the maths that chemists need to know through the use of applications data examples and problems all drawn from chemistry The author demystifies the maths and shows how where and why it is used in chemistry The text assumes little prior knowledge of maths and starts from basic mathematical principles including understanding equations notation basic functions and their priorities It then covers more specialised functions such as logarithms and trigonometric functions before presenting chapters on calculus In this edition there is a new chapter on vectors and matrices **FEATURES** Written by a chemist for chemists Many examples problems and applications Gentle introduction to the maths chemists needs to know New chapter on vectors and matrices Fully worked examples and problems provided within each chapter **CONTENTS** Preface Equations Functions and Graphs Special Functions Practical Statistics Differential Calculus Integral Calculus Differential Equations Statistics for Theoretical Chemistry Complex Numbers Vectors Determinants and Matrices Appendix 1 The Greek Alphabet Appendix 2 Numerical Answers to Problems

The Chemistry Maths Book Erich Steiner, 2008 Topics are organized into three parts algebra calculus differential equations and expansions in series vectors determinants and matrices and numerical analysis and statistics The extensive use of examples illustrates every important concept and method in the text and are used to demonstrate applications of the mathematics in chemistry and several basic concepts in physics The exercises at the end of each chapter are an essential element of the development of the subject and have been designed to give students a working

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