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Maths for Chemists Mathematics for Chemists Basic Mathematics for Chemists The Chemistry Maths Book Mathematics for Chemists Mathematics for Physical Chemistry Maths for Chemistry Mathematics for Chemists Symbolic Mathematics for Chemists Mathematics for Chemistry and Physics Essential Mathematics for Chemists Mathematics for Chemistry Maths for Chemists: Numbers, functions and calculus Applied Mathematics for Physical Chemistry Mathematics for Chemists Mathematical Methods in Chemistry and Physics Mathematical Methods for Physical and Analytical Chemistry The Chemistry Maths Book It's Just Math Mathematics for Physical Chemistry: Opening Doors Mathematics for Chemists Mathematical Problems for Chemistry Students Applied Mathematics for Physical Chemistry Topology in Chemistry Mathematical Methods in Contemporary Chemistry Introduction to Contextual Maths in Chemistry Mathematical Physical Chemistry Mathematical Problems for Chemistry Students Mathematical Concepts in Organic Chemistry Mathematics for Physical Science and Engineering Mathematics for Physical Chemistry Group Theory and Chemistry Mathematical Models and Methods for Ab Initio Quantum Chemistry Foundations of Science Mathematics Chemical Graph Theory New Theories for Chemistry Basic Mathematics for Chemists Chemometrics Mathematics for Quantum Chemistry Chemical Calculations

This is the ideal textbook for those students who want to sharpen their mathematics skills while they are enrolled in a physical chemistry course. It provides students with a review of calculus and differential equations which will enable them to succeed in the physical chemistry course. Features: * Completeness: contains all of the mathematics needed in undergraduate physical chemistry * Clarity: Every sentence, every example, and every equation have been constructed to make it as clear as possible * Applications-oriented: Designed for applications of mathematics, not for mathematical theory; written for a chemist who needs to use mathematics, not for a mathematician who needs to study the underlying theory "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 understanding of the material in the text."--BOOK JACKET. Many undergraduate students enter into chemistry courses, often possessing low levels of experience with the mathematical concepts necessary for carrying out applied calculations in chemistry. This third Edition provides a unified, student-friendly guide of mathematical concepts and techniques structured in the context of familiar chemical topics. This text provides a gentle introduction to the maths chemists need to know. Fully worked examples are contained within each chapter, with answers given at the end of the book. This is a new edition of the combined Volumes I and II of the hugely successful Tutorial Chemistry Texts Maths for Chemists. The new edition will continue to provide an excellent resource for all undergraduate chemistry students particularly focussing on the needs of students who may not have studied mathematics beyond GCSE level (or equivalent). The text is introductory in nature and adopts a sympathetic approach for students who need support and understanding in working with the diverse mathematical tools required in a typical chemistry degree course. The topics covered include: power series, which are used to formulate alternative representations of functions and are important in model building in chemistry; complex numbers and complex functions, which appear in quantum chemistry, spectroscopy and crystallography; matrices and determinants used in the solution of sets of simultaneous linear equations and in the representation of geometrical transformations used to describe molecular symmetry characteristics; and vectors which allow the description of directional properties of molecules. New material includes a new chapter on Statistics and Error Analysis. Ideal for the needs of undergraduate chemistry students, Maths for Chemists is a comprehensive text consisting of short, single topic or modular texts concentrating on the fundamental areas of chemistry taught in undergraduate science courses. It provides a concise account of the basic principles underlying a given subject, embodying an independent-learning

philosophy and including worked examples. Concise, self-contained introduction to group theory and its applications to chemical problems. Symmetry, matrices, molecular vibrations, transition metal chemistry, more. Relevant math included. Advanced-undergraduate/graduate-level. 1973 edition. The authors cover a large range of topics, from basic arithmetic and algebra to calculus and Fourier transforms, bridging the gap between school and university. The informal tutorial style should make it accessible to the novice. The Chemistry Maths Book is a comprehensive textbook of mathematics for undergraduate students of chemistry. Such students often find themselves unprepared and ill-equipped to deal with the mathematical content of their chemistry courses. Textbooks designed to overcome this problem have so far been too basic for complete undergraduate courses and have been unpopular with students. However, this modern textbook provides a complete and up-to-date course companion suitable for all levels of undergraduate chemistry courses. All the most useful and important topics are covered with numerous examples of applications in chemistry and some in physics. The subject is developed in a logical and consistent way with few assumptions of prior knowledge of mathematics. This text is sure to become a widely adopted text and will be highly recommended for all chemistry courses. On the occasion of the fourth International Conference on Industrial and Applied Mathematics!, we decided to organize a sequence of 4 minisymposia devoted to the mathematical aspects and the numerical aspects of Quantum Chemistry. Our goal was to bring together scientists from different communities, namely mathematicians, experts at numerical analysis and computer science, chemists, just to see whether this heterogeneous set of lecturers can produce a rather homogeneous presentation of the domain to an uninitiated audience. To the best of our knowledge, nothing of this kind had never been attempted so far. It seemed to us that it was the good time for doing it, both because the interest of applied mathematicians into the world of computational chemistry has exponentially increased in the past few years, and because the community of chemists feels more and more concerned with the numerical issues. Indeed, in the early years of Quantum Chemistry, the pioneers (Coulson, Mac Weeny, just to quote two of them) used to solve fundamental equations modelling toy systems which could be simply numerically handled in view of their very limited size. The true difficulty arose with the need

to model larger systems while possibly taking into account their interaction with their environment. Hand calculations were no longer possible, and computing science came into the picture.

Contents - Preface - 1. REVIEW OF BASIC MATERIAL - FUNCTIONS, INEQUALITIES - 2. DIFFERENTIAL CALCULUS - 3. INTEGRATION - 4. FUNCTIONS OF MANY VARIABLES ; PARTIAL DIFFERENTIATION - 5. VECTORS - 6. SERIES, TAYLOR-MACLAURIN SERIES - 7. COMPLEX NUMBERS - 8. ORTHOGONAL FUNCTIONS AND FOURIER SERIES - 9. DETERMINANTS - 10. MATRICES - 11. DIFFERENTIAL EQUATIONS - 12. PARTIAL DIFFERENTIAL EQUATIONS - 13. NUMERICAL METHODS - 14. ELEMENTARY STATISTICS AND ERROR ANALYSIS - Problems for Solution - Bibliography - Answers to Problems - Index A how to do it

review and learn book on advanced mathematics necessary to physical chemistry. Coordinate systems, functions and graphs, logarithms, differential calculus, integral calculus, infinite series, differential equations, scalars and vectors, matrices and determinants, operators, numerical methods and the use of the computer, and mathematical methods in the laboratory. Educators, Technicians, and other professionals using mathematics in physical chemistry. Mathematics for Physical Chemistry, Third Edition, is the ideal text for students and physical chemists who want to sharpen their mathematics skills. It can help prepare the reader for an undergraduate course, serve as a supplementary text for use during a course, or serve as a reference for graduate students and practicing chemists. The text concentrates on applications instead of theory, and, although the emphasis is on physical chemistry, it can also be useful in general chemistry courses. The Third Edition includes new exercises in each chapter that provide practice in a technique immediately after discussion or example and encourage self-study. The first ten chapters are constructed around a sequence of mathematical topics, with a gradual progression into more advanced material. The final chapter discusses mathematical topics needed in the analysis of experimental data. Numerous examples and problems interspersed throughout the presentations Each extensive chapter contains a preview, objectives, and summary Includes topics not found in similar books, such as a review of general algebra and an introduction to group theory Provides chemistry specific instruction without the distraction of abstract concepts or theoretical issues in pure mathematics This book offers a comprehensive range of mathematical approaches to the solution of problems in modern organic,

physical, and macromolecular chemistry. A variety of mathematical methods, including graph theory, topology, qualitative theory of ordinary and partial differential equations, probability theory and random processes, and computer simulations, is presented using straightforward chemical examples. Each chapter contains a thorough review of the subject, with a balanced progression from the elementary to more advanced topics. For the novice reader, basic concepts and terms are introduced, general problems are formulated, and solutions are discussed using the results of numerous studies in the literature. For the experienced researcher, the contributors present the results of their original research as well as those from other recent works. The two volumes of Maths for Chemists provide an excellent resource for all undergraduate chemistry students but are particularly focussed on the needs of students who may not have studied mathematics beyond GCSE level (or equivalent). The texts are introductory in nature and adopt a sympathetic approach for students who need support and understanding in working with the diverse mathematical tools required in a typical chemistry degree course. The early chapters of Maths for Chemists Volume I: Numbers, Functions and Calculus provide a succinct introduction to the important mathematical skills of algebraic manipulation, trigonometry, numbers, functions, units and the general grammar of maths. Later chapters build on these basic mathematical principles as a foundation for the development of differential and integral calculus. In spite of the introductory nature of this volume, some of the more important mathematical tools required in quantum chemistry are deliberately included, through a gradual introduction to, and development of, the concept of the eigenvalue problem. Ideal for the needs of undergraduate chemistry students, Tutorial Chemistry Texts is a major series consisting of short, single topic or modular texts concentrating on the fundamental areas of chemistry taught in undergraduate science courses. Each book provides a concise account of the basic principles underlying a given subject, embodying an independent-learning philosophy and including worked examples. This text provides students with concise reviews of mathematical topics that are used throughout physical chemistry. By reading these reviews before the mathematics is applied to physical chemical problems, a student will be able to spend less time worrying about the math and more time learning the physical

chemistry. Written for students of chemistry and chemistry related subjects with limited prior mathematical knowledge, this text will enable them to progress to a level suited to their needs. Chapters reflect the needs of a variety of courses. Many new developments, related to the interpretation and importance of symmetry relationships, quantum mechanics, general relativity, field theory and mathematics have occurred in the second half of the 20th century without having a visible impact on chemical thinking. By re-examining basic theories, *The New Theories for Chemistry* aims to introduce a new understanding of old concepts, such as electron spin, The Periodic Table and electronegativity. The book focuses on the new mathematical concepts that enable the exploration of interactions between particles, waves and fields within a chemical context, and is packed with examples to support its arguments. The author adopts a practical approach and topics are arranged sequentially, from the mathematical basis through to general concepts. An essential reference source, this book is suitable for physicists, theoretical and physical chemists, as well as students and researchers working in the field. Re-examines basic theories, such as electronegativity and electron spin, and introduces new theory Full of practical experiments and examples Is an excellent single reference source *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.

Chemistry and physics share a common mathematical foundation. From elementary calculus to vector analysis and group theory, Mathematics for Chemistry and Physics aims to provide a comprehensive reference for students and researchers pursuing these scientific fields. The book is based on the authors many classroom experience. Designed as a reference text, Mathematics for Chemistry and Physics will prove beneficial for students at all university levels in chemistry, physics, applied mathematics, and theoretical biology. Although this book is not computer-based, many references to current applications are included, providing the background to what goes on "behind the screen" in computer experiments. This text is concerned with those aspects of mathematics that are necessary for first-degree students of chemistry. It is written from the point of view that an element of mathematical rigour is essential for a proper appreciation of the scope and limitations of mathematical methods, and that the connection between physical principles and their mathematical formulation requires at least as much study as the mathematical principles themselves. It is written with chemistry students particularly in mind because that subject provides a point of view that differs in some respects from that of students of other scientific disciplines. Chemists in particular need insight into three dimensional geometry and an appreciation of problems involving many variables. It is also a subject that draws particular benefit from having available two rigorous disciplines, those of mathematics and of thermodynamics. The benefit of rigour is that it provides a degree of certainty which is valuable in a subject of such complexity as is provided by the behaviour of real chemical systems. As an experimen tal science, we attempt in chemistry to understand and to predict behaviour by combining precise experimental measurement with such rigorous theory as may be at the time available; these seldom provide a complete picture but do enable areas of uncertainty to be identified. Mathematics for Physical Science and Engineering is a complete text in mathematics for physical science that includes the use of symbolic computation to illustrate the mathematical concepts and enable the solution of a broader range of practical problems. This book enables professionals to connect their knowledge of mathematics to either or both of the symbolic languages Maple and Mathematica. The book begins by introducing the reader to symbolic computation and how it can be applied to solve a broad

range of practical problems. Chapters cover topics that include: infinite series; complex numbers and functions; vectors and matrices; vector analysis; tensor analysis; ordinary differential equations; general vector spaces; Fourier series; partial differential equations; complex variable theory; and probability and statistics. Each important concept is clarified to students through the use of a simple example and often an illustration. This book is an ideal reference for upper level undergraduates in physical chemistry, physics, engineering, and advanced/applied mathematics courses. It will also appeal to graduate physicists, engineers and related specialties seeking to address practical problems in physical science. Clarifies each important concept to students through the use of a simple example and often an illustration Provides quick-reference for students through multiple appendices, including an overview of terms in most commonly used applications (Mathematica, Maple) Shows how symbolic computing enables solving a broad range of practical problems Guide to mathematical theory and practice for undergraduate chemists New Edition! Completely Revised and Updated Chemical Graph Theory, 2nd Edition is a completely revised and updated edition of a highly regarded book that has been widely used since its publication in 1983. This unique book offers a basic introduction to the handling of molecular graphs - mathematical diagrams representing molecular structures. Using mathematics well within the vocabulary of most chemists, this volume elucidates the structural aspects of chemical graph theory: (1) the relationship between chemical and graph-theoretical terminology, elements of graph theory, and graph-theoretical matrices; (2) the topological aspects of the Hückel theory, resonance theory, and theories of aromaticity; and (3) the applications of chemical graph theory to structure-property and structure-activity relationships and to isomer enumeration. An extensive bibliography covering the most relevant advances in theory and applications is one of the book's most valuable features. This volume is intended to introduce the entire chemistry community to the applications of graph theory and will be of particular interest to theoretical organic and inorganic chemists, physical scientists, computational chemists, and those already involved in mathematical chemistry. Mathematical Methods for Physical and Analytical Chemistry presents mathematical and statistical methods to students of chemistry at the intermediate, post-calculus level. The content includes a review

of general calculus; a review of numerical techniques often omitted from calculus courses, such as cubic splines and Newton's method; a detailed treatment of statistical methods for experimental data analysis; complex numbers; extrapolation; linear algebra; and differential equations. With numerous example problems and helpful anecdotes, this text gives chemistry students the mathematical knowledge they need to understand the analytical and physical chemistry professional literature. CHEMISTRY STUDENT GUIDES. GUIDED BY STUDENTS For any student who has ever struggled with a mathematical understanding of chemistry, this book is for you. Mathematics is the essential tool for physical scientists. We know that confidence in using mathematics early on in a chemistry degree builds a solid foundation for further study. However, applying the abstract mathematics taught in schools to chemical phenomena is one of the biggest challenges that chemistry students face. In this book, we take a 'chemistry-first' approach. We link the mathematics to recognisable chemical concepts, building on high school chemistry, to facilitate deeper understanding. We cover the practical mathematical skills, including representation of data as tables and graphs, and give an overview of error handling in the physical sciences. More advanced mathematical concepts are introduced, using calculus to determine kinetic rate laws, intermolecular forces and in quantifying energetic change in thermodynamics. We also introduce the concept of the complex number and its role in considering quantum wave functions, widely used in computational chemistry. There are worked examples and problem sets to provide plenty of practise material to build proficiency. We also include insights from real students, which identify common problem areas and provide the prompts that helped them to overcome these. Chemistry Student Guides are written with current students involved at every stage, guiding the books towards the most challenging aspects of the topic. By the time chemistry students are ready to study physical chemistry, they've completed mathematics courses through calculus. But a strong background in mathematics doesn't necessarily equate to knowledge of how to apply that mathematics to solving physicochemical problems. In addition, in-depth understanding of modern concepts in physical chemistry requires knowledge of mathematical concepts and techniques beyond introductory calculus, such as differential equations, Fourier series, and Fourier transforms. This results in many

physical chemistry instructors spending valuable lecture time teaching mathematics rather than chemistry. Barrante presents both basic and advanced mathematical techniques in the context of how they apply to physical chemistry. Many problems at the end of each chapter test students' mathematical knowledge. Designed and priced to accompany traditional core textbooks in physical chemistry, *Applied Mathematics for Physical Chemistry* provides students with the tools essential for answering questions in thermodynamics, atomic/molecular structure, spectroscopy, and statistical mechanics. An essential guide to using Maxima, a popular open source symbolic mathematics engine to solve problems, build models, analyze data and explore fundamental concepts *Symbolic Mathematics for Chemists* offers students of chemistry a guide to Maxima, a popular open source symbolic mathematics engine that can be used to solve problems, build models, analyze data, and explore fundamental chemistry concepts. The author – a noted expert in the field – focuses on the analysis of experimental data obtained in a laboratory setting and the fitting of data and modeling experiments. The text contains a wide variety of illustrative examples and applications in physical chemistry, quantitative analysis and instrumental techniques. Designed as a practical resource, the book is organized around a series of worksheets that are provided in a companion website. Each worksheet has clearly defined goals and learning objectives and a detailed abstract that provides motivation and context for the material. This important resource: Offers an text that shows how to use popular symbolic mathematics engines to solve problems Includes a series of worksheet that are prepared in Maxima Contains step-by-step instructions written in clear terms and includes illustrative examples to enhance critical thinking, creative problem solving and the ability to connect concepts in chemistry Offers hints and case studies that help to master the basics while proficient users are offered more advanced avenues for exploration Written for advanced undergraduate and graduate students in chemistry and instructors looking to enhance their lecture or lab course with symbolic mathematics materials, *Symbolic Mathematics for Chemists: A Guide for Maxima Users* is an essential resource for solving and exploring quantitative problems in chemistry. Mathematical skills and concepts lie at the heart of chemistry, yet they are the aspect of the subject that many students fear the most. *Maths for Chemistry* recognizes the challenges faced by

many students in equipping themselves with the maths skills necessary to gain a full understanding of chemistry. Working from foundational principles, the book builds the student's confidence by leading them through the subject in a steady, progressive way from basic algebra to quantum mathematics. Opening with the core mathematics of algebra, logarithms and trigonometry, the book goes on to cover calculus, matrices, vectors, complex numbers, and laboratory mathematics to cover everything that a chemistry student needs. With its modular structure, the book presents material in short, manageable sections to keep the content as accessible and readily digestible as possible. Maths for Chemistry is the perfect introduction to the essential mathematical concepts which all chemistry students should master. This book introduces basic concepts of mathematical physics to chemists. Many textbooks and monographs of mathematical physics may appear daunting to them. Unlike other, related books, however, this one contains a practical selection of material, particularly for graduate and undergraduate students majoring in chemistry. The book first describes quantum mechanics and electromagnetism, with the relation between the two being emphasized. Although quantum mechanics covers a broad field in modern physics, the author focuses on a hydrogen(like) atom and a harmonic oscillator with regard to the operator method. This approach helps chemists understand the basic concepts of quantum mechanics aided by their intuitive understanding without abstract argument, as chemists tend to think of natural phenomena and other factors intuitively rather than only logically. The study of light propagation, reflection, and transmission in dielectric media is of fundamental importance. This book explains these processes on the basis of Maxwell equations. The latter half of the volume deals with mathematical physics in terms of vectors and their transformation in a vector space. Finally, as an example of chemical applications, quantum chemical treatment of methane is introduced, including a basic but essential explanation of Green functions and group theory. Methodology developed by the author will also prove to be useful to physicists. At a time when computerized laboratory automation is producing a data explosion, chemists are turning to applied mathematics and statistics for the tools to extract useful chemical information from data. This rush to find applicable methods has led to a somewhat confusing body of literature that

represents a barrier to chemists wishing to learn more about chemometrics. The confusion results partly from the mixing of chemical notation and nomenclature with those of statistics, applied mathematics and engineering. Additionally, in the absence of collaboration with mathematicians, chemists have, at times, misused data analysis methodology and even reinvented methods that have seen years of service in other fields. The Chemometrics Society has worked hard to solve this problem since it was founded in 1974 with the goal of improving communications between the chemical sciences and applied mathematics and statistics. The NATO Advanced Study Institute on Chemometrics is evidence of this fact as it was initiated in response to a call from its membership for advanced training in several areas of chemometrics. This Institute focused on current theory and application in the new field of Chemometrics: Use of mathematical and statistical methods, Ca) to design or select optimal measurement procedures and experiments; and Cb) to provide maximum chemical information by analyzing chemical data. The Institute had two formal themes and two informal themes. This volume addresses a number of topological themes of direct relevance to chemists. Topological concepts are now regularly applied in wide areas of chemistry including molecular engineering and design, chemical toxicology, the study of molecular shape, crystal and surface structures, chemical bonding, macromolecular species such as polymers and DNA, and environmental chemistry. Currently, the design and synthesis of new drugs and agrochemicals are of especial importance. The book's prime focus is on the role played by topological indices in the description and characterisation of molecular species. The Wiener index along with a variety of other major topological indices, are discussed with particular reference to the powerful and much used connectivity indices. In this book an international team of leading experts review their respective fields and present their findings. The considerable benefits offered by topological indices in the investigation of chemical problems in science, medicine, and industry are highlighted. The volume records proceedings of the Harry Wiener Memorial Conference on the Role of Topology in Chemistry, held at the University of Georgia in March 2001, and serves as a fitting tribute to the chemical contributions of the late Harry Wiener. Focuses on the role played by topological indices in the description and characterisation of molecular species Records

the proceedings of the Harry Weiner Memorial Conference on the Role of Topology in Chemistry, held at the University of Georgia in March 2001 Along with a variety of other major topological indices, the Wiener index is discussed with particular reference to the powerful and much-used connectivity indices Mathematical Problems for Chemistry Students has been compiled and written (a) to help chemistry students in their mathematical studies by providing them with mathematical problems really occurring in chemistry (b) to help practising chemists to activate their applied mathematical skills and (c) to introduce students and specialists of the chemistry-related fields (physicists, mathematicians, biologists, etc.) into the world of the chemical applications. Some problems of the collection are mathematical reformulations of those in the standard textbooks of chemistry, others were taken from theoretical chemistry journals. All major fields of chemistry are covered, and each problem is given a solution. This problem collection is intended for beginners and users at an intermediate level. It can be used as a companion to virtually all textbooks dealing with scientific and engineering mathematics or specifically mathematics for chemists. * Covers a wide range of applications of the most essential tools in applied mathematics * A new approach to a number of classical textbook-problems * A number of non-classical problems are included

Mathematical Problems for Chemistry Students has been compiled and written (a) to help chemistry students in their mathematical studies by providing them with mathematical problems really occurring in chemistry (b) to help practising chemists to activate their applied mathematical skills and (c) to introduce students and specialists of the chemistry-related fields (physicists, mathematicians, biologists, etc.) into the world of the chemical applications. Some problems of the collection are mathematical reformulations of those in the standard textbooks of chemistry, others were taken from theoretical chemistry journals. All major fields of chemistry are covered, and each problem is given a solution. This problem collection is intended for beginners and users at an intermediate level. It can be used as a companion to virtually all textbooks dealing with scientific and engineering mathematics or specifically mathematics for chemists. * Covers a wide range of applications of the most essential tools in applied mathematics * A new approach to a number of classical textbook-problems * A number of non-classical problems are

included At the interface between chemistry and mathematics, this book brings together research on the use mathematics in the context of undergraduate chemistry courses. These university-level studies also support national efforts expressed in the Next Generation Science Standards regarding the importance of skills, such as quantitative reasoning and interpreting data. Curated by award-winning leaders in the field, this book is useful for instructors in chemistry, mathematics, and physics at the secondary and university levels. The present book is an attempt to outline some, certainly not all, mathematical aspects of modern organic chemistry. We have focused our attention on topological, graph-theoretical and group-theoretical features of organic chemistry, Parts A, B and C. The book is directed to all those chemists who use, or who intend to use mathematics in their work, and especially to graduate students. The level of our exposition is adjusted to the mathematical background of graduate students of chemistry and only some knowledge of elementary algebra and calculus is required from the readers of the book. Some less well-known, but still elementary mathematical facts are collected in Appendices 1-4. This, however, does not mean that the mathematical rigor and numerous tedious, but necessary technical details have been avoided. The authors' intention was to show the reader not only how the results of mathematical chemistry look, but also how they can be obtained. In accordance with this, Part 0 of the book contains a few selected advanced topics which should give the reader the flavour of the contemporary research in mathematical organic chemistry. One of the authors (I.G.) was an Alexander von Humboldt fellow in 1985 when the main part of the book was written. He gratefully acknowledges the financial support of the Alexander von Humboldt Foundation which enabled his stay at the Max-Planck-Institut für Strahlenchemie in M iilheim and the writing of this book. Introduction to problems of molecular structure and motion covers calculus of orthogonal functions, algebra of vector spaces, and Lagrangian and Hamiltonian formulation of classical mechanics. Answers to problems. 1966 edition.

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