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Reaction Rate Theory and Rare Events-Baron Peters 2017-03-22 Reaction Rate Theory and Rare Events bridges the historical gap between these subjects because the increasingly multidisciplinary nature of scientific research often requires an understanding of both reaction rate theory and the theory of other rare events. The book discusses collision theory, transition state theory, RRKM theory, catalysis, diffusion limited kinetics, mean first passage times, Kramers theory, Grote-Hynes theory, transition path theory, non-adiabatic reactions, electron transfer, and topics from reaction network analysis. It is an essential reference for students, professors and scientists who use reaction rate theory or the theory of rare events. In addition, the book discusses transition state search algorithms, tunneling corrections, transmission coefficients, microkinetic models, kinetic Monte Carlo, transition path sampling, and importance sampling methods. The unified treatment in this book explains why chemical reactions and other rare events, while having many common theoretical foundations, often require very different computational modeling strategies. Offers an integrated approach to all simulation theories and reaction network analysis, a unique approach not found elsewhere Gives algorithms in pseudocode for using molecular simulation and computational chemistry methods in studies of rare events Uses graphics and explicit examples to explain concepts Includes problem sets developed and tested in a course range from pen-and-paper theoretical problems, to computational exercises

An Introduction to Chemical Kinetics-Claire Vallance 2017-09-28 The book is a short primer on chemical reaction rates based on a six-lecture first-year undergraduate course taught by the author at the University of Oxford. The book explores the various factors that determine how fast or slowly a chemical reaction proceeds and describes a variety of experimental methods for measuring reaction rates. The link between the reaction rate and the sequence of steps that makes up the reaction mechanism is also investigated. Chemical reaction rates is a core topic in all undergraduate chemistry courses.

Painting Materials-R. J. Gettens 2012-09-26 Thorough, exhaustive coverage of materials, media, tools of painting through ages; based on historical and laboratory studies. A standard reference for painters, students, curators, and conservators. 34 illustrations.

Concept Development Studies in Chemistry-John S. Hutchinson 2009-09-01

Physical Chemistry for the Biosciences-Raymond Chang 2005-02-11 Chang's newest text has been shortened, streamlined and optimized for a one-semester introductory course in physical chemistry for students of biosciences. Most students enrolled in this course have taken general chemistry, organic chemistry, and a year of physics and calculus. Only basic skills of differential and integral calculus are required for understanding the equations. For premedical students, this text will form the basis for taking courses like physiology in medical school. For those intending to pursue graduate study in biosciences, the material presented here will serve as an introduction to topics in biophysical chemistry courses, where more advanced texts such as those by Gennis, van Holde, and Cantor & Schimmel are used. The author's aim is to emphasize understanding physical concepts rather than focusing on precise mathematical

development or on actual experimental details. The end-of-chapter problems have both physiochemical and biological applications.

Modeling of Chemical Kinetics and Reactor Design-A. Kayode Coker 2001 Selecting the best type of reactor for any particular chemical reaction, taking into consideration safety, hazard analysis, scale-up, and many other factors is essential to any industrial problem. An understanding of chemical reaction kinetics and the design of chemical reactors is key to the success of the of the chemist and the chemical engineer in such an endeavor. This valuable reference volume conveys a basic understanding of chemical reactor design methodologies, incorporating control, hazard analysis, and other topics not covered in similar texts. In addition to covering fluid mixing, the treatment of wastewater, and chemical reactor modeling, the author includes sections on safety in chemical reaction and scale-up, two topics that are often neglected or overlooked. As a real-world introduction to the modeling of chemical kinetics and reactor design, the author includes a case study on ammonia synthesis that is integrated throughout the text. The text also features an accompanying CD, which contains computer programs developed to solve modeling problems using numerical methods. Students, chemists, technologists, and chemical engineers will all benefit from this comprehensive volume. Shows readers how to select the best reactor design, hazard analysis, and safety in design methodology Features computer programs developed to solve modeling problems using numerical methods

Chemical Kinetics-Kenneth Antonio Connors 1990 Chemical Kinetics The Study of Reaction Rates in Solution Kenneth A. Connors This chemical kinetics book blends physical theory, phenomenology and empiricism to provide a guide to the experimental practice and interpretation of reaction kinetics in solution. It is suitable for courses in chemical kinetics at the graduate and advanced undergraduate levels. This book will appeal to students in physical organic chemistry, physical inorganic chemistry, biophysical chemistry, biochemistry, pharmaceutical chemistry and water chemistry all fields concerned with the rates of chemical reactions in the solution phase.

Theories of Chemical Reaction Rates-Keith James Laidler 1979

Introductory Chemistry-Nivaldo J. Tro 2014-01-01 See how chemistry is relevant to your life Now in its fifth edition, Introductory Chemistry continues to foster deep engagement in the course by showing how chemistry manifests in your daily life. Author Nivaldo Tro draws upon his classroom experience as an award-winning instructor to extend chemistry from the laboratory to your world, with relevant applications and a captivating writing style. Closely integrated with the fifth edition of Introductory Chemistry, MasteringChemistry® gives you the tools you need to succeed in this course. This program provides you a better learning experience. It will help you to: • Personalize learning with MasteringChemistry®: This data-validated online homework, tutorial, and assessment program helps you quickly master concepts, and enables instructors to provide timely intervention when necessary. • Achieve deep conceptual understanding: Several new Conceptual Checkpoints and Self-Assessment Quizzes help you better grasp key concepts. • Develop problem-solving skills: A step-by-step framework encourages you to think logically rather than simply memorize formulas. Additional worked examples, enhanced with audio and video, reinforce challenging problems. • Maintain interest in chemistry: The inclusion of concrete examples of key ideas throughout the program keeps you engaged in the material. Note: If you are purchasing the standalone text or electronic version, MasteringChemistry does not come automatically packaged with the text. To purchase MasteringChemistry please visit: www.masteringchemistry.com or you can purchase a package of the physical text + MasteringChemistry by searching for 9780321910073 / 0321910079. MasteringChemistry is not a self-paced technology and should only be purchased when required by an instructor.

Chemistry for the Biosciences-Jonathan Crowe 2010 Focuses on the key chemical concepts which students of the biosciences need to understand, making the scope of the book directly relevant to the target audience.

Chemical Kinetics-Luis G Arnaut 2006-12-21 Chemical Kinetics bridges the gap between beginner and specialist with a path that leads the reader from the phenomenological approach to the rates of chemical reactions to the state-of-the-art calculation of the rate constants of the most prevalent reactions: atom transfers, catalysis, proton transfers, substitution reactions, energy transfers and electron transfers. For the beginner provides the basics: the simplest concepts, the fundamental experiments, and the underlying theories. For the specialist shows where sophisticated experimental and theoretical methods combine to offer a panorama of time-dependent molecular phenomena connected by a new rational. Chemical Kinetics goes far beyond the qualitative description: with the guidance of theory, the path becomes a reaction path that can actually be inspected and calculated. But Chemical Kinetics is more about structure and

reactivity than numbers and calculations. A great emphasis in the clarity of the concepts is achieved by illustrating all the theories and mechanisms with recent examples, some of them described with sufficient detail and simplicity to be used in general chemistry and lab courses. * Looking at atoms and molecules, and how molecular structures change with time. * Providing practical examples and detailed theoretical calculations * Of special interest to Industrial Chemistry and Biochemistry

Collision Theory and Statistical Theory of Chemical Reactions-S. G. Christov 2012-12-06 Since the discovery of quantum mechanics, more than fifty years ago, the theory of chemical reactivity has taken the first steps of its development. The knowledge of the electronic structure and the properties of atoms and molecules is the basis for an understanding of their interactions in the elementary act of any chemical process. The increasing information in this field during the last decades has stimulated the elaboration of the methods for evaluating the potential energy of the reacting systems as well as the creation of new methods for calculation of reaction probabilities (or cross sections) and rate constants. An exact solution to these fundamental problems of theoretical chemistry based on quantum mechanics and statistical physics, however, is still impossible even for the simplest chemical reactions. Therefore, different approximations have to be used in order to simplify one or the other side of the problem. At present, the basic approach in the theory of chemical reactivity consists in separating the motions of electrons and nuclei by making use of the Born-Oppenheimer adiabatic approximation to obtain electronic energy as an effective potential for nuclear motion. If the potential energy surface is known, one can calculate, in principle, the reaction probability for any given initial state of the system. The reaction rate is then obtained as an average of the reaction probabilities over all possible initial states of the reacting ~articles. In the different stages of this calculational scheme additional approximations are usually introduced.

Plasma Medicine-Alexander Fridman 2012-12-19 This comprehensive text is suitable for researchers and graduate students of a 'hot' new topic in medical physics. Written by the world's leading experts, this book aims to present recent developments in plasma medicine, both technological and scientific, reviewed in a fashion accessible to the highly interdisciplinary audience consisting of doctors, physicists, biologists, chemists and other scientists, university students and professors, engineers and medical practitioners. The book focuses on major topics and covers the physics required to develop novel plasma discharges relevant for medical applications, the medicine to apply the technology not only in-vitro but also in-vivo testing and the biology to understand complicated bio-chemical processes involved in plasma interaction with living tissues.

Chemistry-Theodore L. Brown 1999-06-01

Tribology in Engineering-Hasim Pihtili 2013-05-08 The main goal in preparing this book was to publish contemporary concepts, new discoveries and innovative ideas in the field of surface engineering, predominantly for the technical applications, as well as in the field of production engineering and to stress some problems connected with the use of various surface processes in modern manufacturing of different purpose machine parts. This book is an attempt to introduce science into the study of surface treatment processes. Tribology offers a good approach for describing abrasive machining and coating processes and offers the ability to predict some of the outputs of the processes. The study of friction, forces, and energy explores the importance of the various factors which govern the stresses and deformations of abrasion. The effects of grain shape, depth of penetration, and lubrication on the process forces are explored. The tribology of nanostructured surfaces involves many fundamental and scientific issues. More importantly, it has tremendous applications in industries. It is a powerful tool to regulate friction, adhesion, and wetting of surfaces by altering their geometric textures and material compositions at the nanoscale, and, hence, to control the tribological performance of the engineering surfaces.

Advanced Chemical Kinetics-Muhammad Akhyar Farrukh 2018-02-21 The book on Advanced Chemical Kinetics gives insight into different aspects of chemical reactions both at the bulk and nanoscale level and covers topics from basic to high class. This book has been divided into three sections: (i) "Kinetics Modeling and Mechanism," (ii) "Kinetics of Nanomaterials," and (iii) "Kinetics Techniques." The first section consists of six chapters with a variety of topics like activation energy and complexity of chemical reactions; the measurement of reaction routes; mathematical modeling analysis and simulation of enzyme kinetics; mechanisms of homogeneous charge compression ignition combustion for the fuels; photophysical processes and photochemical changes; the mechanism of hydroxyl radical, hydrate electron, and hydrogen atom; and acceptorless alcohol dehydrogenation. The understanding of the kinetics of nanomaterials, to bridge the knowledge gap, is presented in the second section. The third section highlights an overview of experimental techniques used to study the mechanism of reactions.

Kinetics of Enzyme Action-Ross L. Stein 2011-08-08 Few scientists have the knowledge to perform the studies that are necessary to discover and characterize enzyme inhibitors, despite the vested interest the pharmaceutical industry has in this field. Beginning with the most basic principles pertaining to simple, one-substrate enzyme reactions and their inhibitors, and progressing to a thorough treatment of two-substrate enzymes, Kinetics of Enzyme Action: Essential Principles for Drug Hunters provides biochemists, medicinal chemists, and pharmaceutical scientists with numerous case study examples to outline the tools and techniques necessary to perform, understand, and interpret detailed kinetic studies for drug discovery.

Chemical Kinetics and Process Dynamics in Aquatic Systems-Patrick L. Brezonik 2018-05-08 Chemical Kinetics and Process Dynamics in Aquatic Systems is devoted to chemical reactions and biogeochemical processes in aquatic systems. The book provides a thorough analysis of the principles, mathematics, and analytical tools used in chemical, microbial, and reactor kinetics. It also presents a comprehensive, up-to-date description of the kinetics of important chemical processes in aquatic environments. Aquatic photochemistry and correlation methods (e.g., LFERs and QSARs) to predict process rates are covered. Numerous examples are included, and each chapter has a detailed bibliography and problems sets. The book will be an excellent text/reference for professionals and students in such fields as aquatic chemistry, limnology, aqueous geochemistry, microbial ecology, marine science, environmental and water resources engineering, and geochemistry.

Handbook of Nuclear Chemistry-Attila Vértes 2003

Chemical Kinetics and Dynamics-Jeffrey I. Steinfeld 1999 This text presents a balanced presentation of the macroscopic view of empirical kinetics and the microscopic molecular viewpoint of chemical dynamics. This second edition includes the latest information, as well as new topics such as heterogeneous reactions in atmospheric chemistry, reactant product imaging, and molecular dynamics of $H + H_2$.

Elements of Chemical Reaction Engineering-H. Scott Fogler 2013-07-29 The book presents in a clear and concise manner the fundamentals of chemical reaction engineering. The structure of the book allows the student to solve reaction engineering problems through reasoning rather than through memorization and recall of numerous equations, restrictions, and conditions under which each equation applies. The fourth edition contains more industrial chemistry with real reactors and real engineering and extends the wide range of applications to which chemical reaction engineering principles can be applied (i.e., cobra bites, medications, ecological engineering)

Kinetics of Chemical Reactions-Guy B. Marin 2019-05-07 This second, extended and updated edition presents the current state of kinetics of chemical reactions, combining basic knowledge with results recently obtained at the frontier of science. Special attention is paid to the problem of the chemical reaction complexity with theoretical and methodological concepts illustrated throughout by numerous examples taken from heterogeneous catalysis combustion and enzyme processes. Of great interest to graduate students in both chemistry and chemical engineering.

Chemical Equilibria and Kinetics in Soils-Garrison Sposito 1994 Chemical equilibrium and kinetics; chemical reactions in soil; the equilibrium constant; reaction rate laws; temperature effects; coupled rate laws; special topic; standard states; for further reading; chemical speciation in aqueous solutions; complexation reactions; oxidation reduction reactions; polymeric species; multispecies equilibria; special topic; electrochemical potentials; dissolution precipitation reactions; activity ratio and predominance diagrams; mixed solid phases; reductive dissolution reactions; dissolution reaction mechanisms; surface reactions; adsorption desorption equilibria; adsorption on heterogeneous surfaces; adsorption relaxation kinetics; surface oxidation reduction reactions; transport controlled adsorption kinetics; ion exchange reactions; ion exchange as an adsorption reaction; binary ion exchange equilibria; multicomponent ion exchange equilibria; ion exchange kinetics; heterogeneous ion exchange; colloidal processes; flocculation pathways; the von Smoluchowski Rate Law; scaling the von Smoluchowski Rate Law; Fuchsiam kinetics; the stability ratio; special topic; Cluster fractals.

The Thermodynamics of Linear Fluids and Fluid Mixtures-Miloslav Pekař 2013-11-19 In this book, Samohýl and Pekař offer a consistent and general non-equilibrium thermodynamic description for a model of chemically reacting mixtures. This type of model is frequently encountered in practice and up until now, chemically reacting systems (out of equilibrium) have rarely been described in books on non-equilibrium thermodynamics. Readers of this book benefit from the systematic development of the theory; this starts with general principles, going through the applications to single component fluid systems, and finishing with the theory of mixtures, including chemical reactions. The authors describe the simplest mixture model - the linear fluid - and highlight many practical and thermodynamically consistent equations for

describing transport properties and reaction kinetics for this model. Further on in the book, the authors also describe more complex models. Samohýl and Pekař take special care to clearly explain all methodology and starting axioms and they also describe in detail applied assumptions and simplifications. This book is suitable for graduate students in chemistry, materials science and chemical engineering as well as professionals working in these and related areas.

Chemoinformatics-Johann Gasteiger 2006-12-13 This first work to be devoted entirely to this increasingly important field, the "Textbook" provides both an in-depth and comprehensive overview of this exciting new area. Edited by Johann Gasteiger and Thomas Engel, the book provides an introduction to the representation of molecular structures and reactions, data types and databases/data sources, search methods, methods for data analysis as well as such applications as structure elucidation, reaction simulation, synthesis planning and drug design. A "hands-on" approach with step-by-step tutorials and detailed descriptions of software tools and Internet resources allows easy access for newcomers, advanced users and lecturers alike. For a more detailed presentation, users are referred to the "Handbook of Chemoinformatics", which will be published separately. Johann Gasteiger is the recipient of the 1991 Gmelin-Beilstein Medal of the German Chemical Society for Achievements in Computer Chemistry, and the Herman Skolnik Award of the Division of Chemical Information of the American Chemical Society (ACS) in 1997. Thomas Engel joined the research group headed by Johann Gasteiger at the University of Erlangen-Nuremberg and is a specialist in chemoinformatics.

An Introduction to Chemistry-Mark Bishop 2002 Bishop's text shows students how to break the material of preparatory chemistry down and master it. The system of objectives tells the students exactly what they must learn in each chapter and where to find it.

Chemical Reaction Kinetics-Jorge Ancheyta 2017-06-05 A practical approach to chemical reaction kinetics—from basic concepts to laboratory methods—featuring numerous real-world examples and case studies This book focuses on fundamental aspects of reaction kinetics with an emphasis on mathematical methods for analyzing experimental data and interpreting results. It describes basic concepts of reaction kinetics, parameters for measuring the progress of chemical reactions, variables that affect reaction rates, and ideal reactor performance. Mathematical methods for determining reaction kinetic parameters are described in detail with the help of real-world examples and fully-worked step-by-step solutions. Both analytical and numerical solutions are exemplified. The book begins with an introduction to the basic concepts of stoichiometry, thermodynamics, and chemical kinetics. This is followed by chapters featuring in-depth discussions of reaction kinetics; methods for studying irreversible reactions with one, two and three components; reversible reactions; and complex reactions. In the concluding chapters the author addresses reaction mechanisms, enzymatic reactions, data reconciliation, parameters, and examples of industrial reaction kinetics. Throughout the book industrial case studies are presented with step-by-step solutions, and further problems are provided at the end of each chapter. Takes a practical approach to chemical reaction kinetics basic concepts and methods Features numerous illustrative case studies based on the author's extensive experience in the industry Provides essential information for chemical and process engineers, catalysis researchers, and professionals involved in developing kinetic models Functions as a student textbook on the basic principles of chemical kinetics for homogeneous catalysis Describes mathematical methods to determine reaction kinetic parameters with the help of industrial case studies, examples, and step-by-step solutions Chemical Reaction Kinetics is a valuable working resource for academic researchers, scientists, engineers, and catalyst manufacturers interested in kinetic modeling, parameter estimation, catalyst evaluation, process development, reactor modeling, and process simulation. It is also an ideal textbook for undergraduate and graduate-level courses in chemical kinetics, homogeneous catalysis, chemical reaction engineering, and petrochemical engineering, biotechnology. Introduction to Chemical Kinetics-Margaret Robson Wright 2005-08-19 The range of courses requiring a good basic understanding of chemical kinetics is extensive, ranging from chemical engineers and pharmacists to biochemists and providing the fundamentals in chemistry. Due to the wide reaching nature of the subject readers often struggle to find a book which provides in-depth, comprehensive information without focusing on one specific subject too heavily. Here Dr Margaret Wright provides an essential introduction to the subject guiding the reader through the basics but then going on to provide a reference which professionals will continue to dip in to through their careers. Through extensive worked examples, Dr Wright, presents the theories as to why and how reactions occur, before examining the physical and chemical requirements for a reaction and the factors which can influence these. * Carefully structured, each chapter includes learning objectives, summary sections and problems. * Includes numerous applications to show relevance of kinetics and also provides plenty of worked examples integrated

throughout the text.

Thermal Physics-Charles Kittel 1980-01-15 CONGRATULATIONS TO HERBERT KROEMER, 2000 NOBEL LAUREATE FOR PHYSICS For upper-division courses in thermodynamics or statistical mechanics, Kittel and Kroemer offers a modern approach to thermal physics that is based on the idea that all physical systems can be described in terms of their discrete quantum states, rather than drawing on 19th-century classical mechanics concepts.

Organic Chemistry, Energetics, Kinetics and Equilibrium-Brian Chapman 2003 The revised edition of the highly successful Nelson Advanced Science series for A Level Chemistry - Organic Chemistry, Energetics, Kinetics and Equilibrium provides full content coverage of Unit 2 of the AS and A2 specifications.

Physical Chemistry-Peter Atkins 2006-07-19

Chemistry of Complex Equilibria-Mihály T. Beck 1990

Chemical Education: Towards Research-based Practice-J.K. Gilbert 2006-04-11 Chemical education is essential to everybody because it deals with ideas that play major roles in personal, social, and economic decisions. This book is based on three principles: that all aspects of chemical education should be associated with research; that the development of opportunities for chemical education should be both a continuous process and be linked to research; and that the professional development of all those associated with chemical education should make extensive and diverse use of that research. It is intended for: pre-service and practising chemistry teachers and lecturers; chemistry teacher educators; chemical education researchers; the designers and managers of formal chemical curricula; informal chemical educators; authors of textbooks and curriculum support materials; practising chemists and chemical technologists. It addresses: the relation between chemistry and chemical education; curricula for chemical education; teaching and learning about chemical compounds and chemical change; the development of teachers; the development of chemical education as a field of enquiry. This is mainly done in respect of the full range of formal education contexts (schools, universities, vocational colleges) but also in respect of informal education contexts (books, science centres and museums).

The MCAT Chemistry Book-Ajikumar Aryangat 2021-01-15 Comprehensive, Rigorous Prep for MCAT Chemistry The MCAT Chemistry Book presents a comprehensive review of general chemistry and organic chemistry to prepare for the Medical College Admission Test. Part I presents general chemistry concepts, and Part II presents organic chemistry concepts. The review sections are written in a user-friendly manner to simplify and reduce the student's burden when deciphering difficult concepts. At the end of each chapter, practice questions are included to test the understanding of the key concepts. Answers and explanations for the practice questions are provided after the review sections. Illustrations and tables are included wherever necessary to focus and clarify key ideas and concepts.

High Pressure Chemistry-H. Kelm 2012-12-06 Recent advances in the field of high pressure techniques influenced me to propose an Advanced Study Institute in High Pressure Chemistry. It was intended that the summer school should devote itself exclusively to the description and discussion of the effects of pressure in chemistry. Besides typical effects on matter, the application of high pressure techniques to existing research methods were to be treated, as well as pressure effects on reaction rates and equilibria. According to the concept of the Advanced Study Institute Program, the Summer School proceedings were meant to be a high level teaching activity. It was emphasized that the contributions should have the character of surveys rather than of highly specialized reports on recent research results. Now, following the successful completion of the summer school, which involved very close cooperation with my colleagues during its preparation, it is my sincere wish to thank all the lecturers and contributors to this volume for the extreme care they used in preparing the lectures and manuscripts. I am especially grateful to the members of the organizing committee for their valuable assistance. Finally, the financial support of the Scientific Affairs Division of the North Atlantic Treaty Organization is equally appreciated by participants and organizers of the Advanced Study Institute.

MYP Chemistry: a Concept Based Approach: Print and Online Pack-Gary Horner 2018-05-11 Drive achievement in the MYP and strengthen scientific confidence. Equipping learners with the confident scientific understanding central to progression through the MYP Sciences, this text is fully matched to the Next Chapter curriculum. The inquiry-based structure immerses learners in a concept-based approach, strengthening performance. Develop comprehensive scientific knowledge underpinned by rich conceptual awareness, equipping learners with the confidence to handle new ideas Fully integrate a concept-based approach with an inquiry-based structure that drives independent thinking Build flexibility interwoven global contexts enable big picture understanding and ensure students can apply learning to new areas Fully mapped to the Next Chapter curriculum and supports the Common Core Strengthen potential in the

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Stochastic Approach to Chemical Kinetics-Donald Allan McQuarrie 1968

Chemistry is Phenomenal-Tracy Poulsen

The Chemical Kinetics of Excited States-Keith James Laidler 1955

The PMO Theory of Organic Chemistry-Michael Dewar 2012-12-06 This textbook introduces the perturbation molecular orbital (PMO) theory of organic chemistry. Organic chemistry encompasses the largest body of factual information of any of the major divisions of science. The sheer bulk of the subject matter makes many demands on any theory that attempts to systematize it. Time has shown that the PMO method meets these demands admirably. The PMO method can provide practicing chemists with both a pictorial description of bonding and qualitative theoretical results that are well founded in more sophisticated treatments. The only requirements for use of the theory are high school algebra and a pencil and paper. The treatment described in this book is by no means new. Indeed, it was developed as a complete theory of organic chemistry more than twenty years ago. Although it was demonstrably superior to resonance theory and no more complicated to use, it escaped notice for two very simple reasons. First, the original papers describing it were very condensed, perhaps even obscure, and contained few if any examples. Second, for various reasons, no general account appeared in book form until 1969,* and this was still relatively inaccessible, being in the form of a monograph where molecular orbital (MO) theory was treated mainly at a much more sophisticated level. The generality of the PMO method is illustrated by the fact that all the new developments over the last two decades can be accommodated in it.

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