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the present monograph appears after the death of professor v n kondratiev one of those scientists who have greatly contributed to the foundation of contemporary gas kinetics the most fundamental idea of chemical kinetics put forward at the beginning of the twentieth century and connected with names such as w nernst m bodenstein n n semenov and c n hinshelwood was that the complex chemical reactions are in fact a manifestation of a set of simpler elementary reactions involving but a small number of species v n kondratiev was one of the first to adopt this idea and to start investigations on the elementary chemical reactions proper these investigations revealed explicitly that every elementary reaction in turn consisted of many elementary events usually referred to as elementary processes it took some time to realize that an elementary reaction represented in a very simple way by a macroscopic kinetic equation can be described on a microscopic level by a generalized boltzmann equation nevertheless up to the middle of the twentieth century gas kinetics was mainly concerned with the interpretation of complex chemical reactions via a set of elementary reactions but later on the situation changed drastically first the conditions for reducing microscopic equations to macroscopic ones were clearly set up these are essentially based on the fact that the small perturbations of the maxwell boltzmann distribution are caused by the reaction proper

the so called reaction path r_p with respect to the potential energy or the gibbs energy free enthalpy is one of the most fundamental concepts in chemistry it significantly helps to display and visualize the results of the complex microscopic processes forming a chemical reaction this concept is an implicit component of conventional transition state theory tst the model of the reaction path and the tst form a qualitative framework which provides chemists with a better understanding of chemical reactions and stirs their imagination however an exact calculation of the r_p and its neighbourhood becomes important when the r_p is used as a tool for a detailed exploring of reaction mechanisms and particularly when it is used as a basis for reaction rate theories above and beyond tst the r_p is a theoretical instrument that now forms the theoretical heart of direct dynamics it is particularly useful for the interpretation of reactions in common chemical systems a suitable definition of the r_p of potential energy surfaces is necessary to

ensure that the reaction theories based on it will possess sufficiently high quality thus we have to consider three important fields of research analysis of potential energy surfaces and the definition and best calculation of the rps or at least of a number of selected and chemically interesting points on it the further development of concrete versions of reaction theory beyond tst which are applicable for common chemical systems using the rp concept

chemical reactions in solvents and melts discusses the use of organic and inorganic compounds as well as of melts as solvents this book examines the applications in organic and inorganic chemistry as well as in electrochemistry organized into two parts encompassing 15 chapters this book begins with an overview of the general properties and the different types of reactions including acid base reactions complex formation reactions and oxidation reduction reactions this text then describes the properties of inert and active solvents other chapters consider the proton transfer reactions in polar solvents as well as the transfer of other ions this book discusses as well the solubility in a number of solvents by the formation of different bonds between the solute and the solvent molecule the final chapter deals with the general characteristics of the oxidation reduction reactions of melts this book is a valuable resource for chemists students and researchers

this book contains the formal lectures and contributed papers presented at the nato advanced study institute on the advances in chemical reaction dynamics the meeting convened at the city of iraklion crete greece on 25 august 1985 and continued to 7 september 1985 the material presented describes the fundamental and recent advances in experimental and theoretical aspects of reaction dynamics a large section is devoted to electronically excited states ionic species and free radicals relevant to chemical systems in addition recent advances in gas phase polymerization formation of clusters and energy release processes in energetic materials were presented selected papers deal with topics such as the dynamics of electric field effects in low polar solutions high electric field perturbations and relaxation of dipole equilibria correlation in picosecond laser pulse scattering and applications to fast reaction dynamics picosecond transient raman spectroscopy which has been used for the elucidation of reaction dynamics and structural changes occurring during the course of ultrafast chemical reactions propagation of turbulent flames and detonations in gaseous energetic systems are also discussed in some detail in addition a large portion of the program was devoted to current experimental and theoretical studies of the structure of the transition state as

inferred from product state distributions translational energy release in the photodissociation of aromatic molecules intramolecular and intramolecular dynamic processes

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