

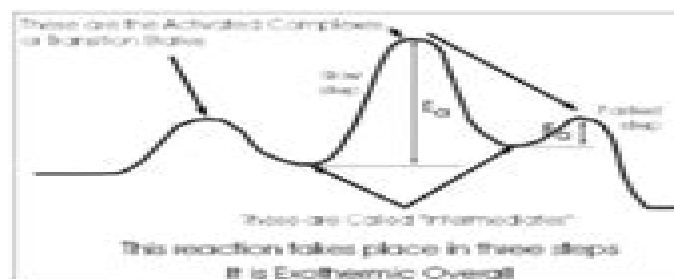
Unit 11: Kinetics & Equilibrium Review Sheet

1. Collision Theory: For a reaction to take place, the particles of the substances that are reacting have to collide
2. If they collide, with:
 - enough energy,
 - and have the correct reaction geometry ... then they will react.



The minimum amount of kinetic (movement) energy that two particles need if they are going to react when they collide is called the activation energy.

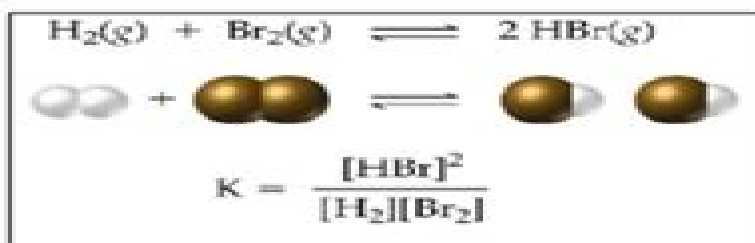
3. Anything that increases this "exchange or collision" will make the reaction faster. These include:
 - **Increased Temperature:** faster movement, harder collisions
 - **Increased Concentration:** more stuff, more collisions
 - **Decreased Particle Size:** Decreased particle size increases surface area
 - **Pressure on a Gas:** compressed gas molecules collide more often
 - **Dissolving solids:** solids would react slowly
 - **And adding Catalysts:** usually provide a surface for the reaction
4. Define a reaction mechanism:
 - **An Elementary reaction:** a reaction that happens in a single step.
 - A **Reaction mechanism** is a description of how the reaction really happens.
 - It is a series of elementary reactions.
 - The product of an elementary reaction is an intermediate.
5. Identify the number of steps, intermediates, Energy of Activation, fastest step, slowest (rate determining) step, and enthalpy of reaction(s) from a potential energy diagram.
6. Explain how the rate-determining step of the reaction mechanism affects the overall rate of the reaction.
7. Write the rate law for a reaction given experimental data.
8. Define chemical equilibrium in terms of a reversible reaction.



$$2 \text{NO}_2 + \text{H}_2 \rightarrow 2 \text{HNO}_2$$

Experiment number	$[\text{NO}_2]$ mol/L	$[\text{H}_2]$ mol/L	Rate of Reaction mol/L.s
1	0.001	0.004	0.0001
2	0.002	0.004	0.0004
3	0.002	0.008	0.0008
4	0.004	0.007	0.0006
5	0.004	0.002	0.0004
6	0.004	0.008	0.0008

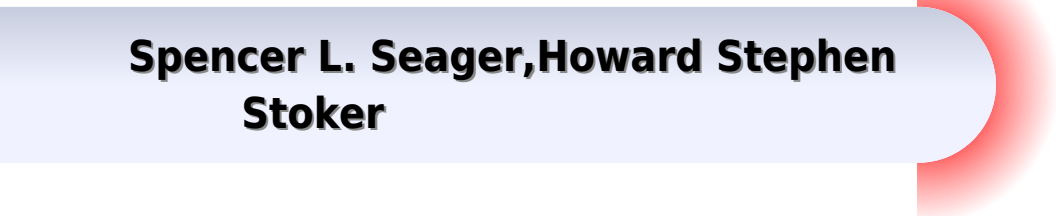
The Overall rate Equation for this reaction is:

$$\text{Rate} = k[\text{NO}_2]^2[\text{H}_2]$$


9. Explain the process of reaching equilibrium.
10. Explain the nature of the equilibrium constant.

Honors Chemistry Equilibrium Review

**Spencer L. Seager, Howard Stephen
Stoker**



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Advances In The Computational Sciences - Proceedings Of The Symposium In Honor Of Dr Berni Alder's 90th Birthday Eric Schwegler, Brenda M Rubenstein, Stephen B Libby, 2017-02-16 On August 20 2015 a symposium at Lawrence Livermore National Laboratory was held in honor of Berni J Alder s 90th birthday Many of Berni s scientific colleagues and collaborators former students and post doctoral fellows came to celebrate and honor Berni and the ground breaking scientific impact of his many discoveries This proceedings volume includes contributions from Berni s collaborators and covers a range of topics including the melting transition in the 2D hard disk system non equilibrium fluid relaxation the role of fluctuations in hydrodynamics glass transitions molecular dynamics of dense fluids shock wave and finite strain equation of state relationships and applications of quantum mechanics in pattern recognition *Current Topics In Physics: In Honor Of Sir Roger J Elliott* Rafael A Barrio, Kimmo Kaski, 2005-06-28 This indispensable book is a compilation of invited talks delivered at the symposium Current Topics in Physics held in Mexico City in June 2003 to celebrate the 75th birthday of Professor Sir Roger Elliott The contributions have been prepared by research associates former students post doctoral fellows and colleagues of Professor Elliott many of them leading scientists as Sir Roger himself in important research institutes around the world The book gives a very timely and comprehensive overview of various key areas of modern condensed matter and statistical physics 19 original contributions are included grouped in three main areas disorder and dynamical systems structures and glasses electrical and magnetic properties The contributions are by many of the foremost researchers in the field of condensed matter and statistical physics In particular contributions by such prominent scientists as M E Fisher A A Maradudin M F Thorpe M Balkanski T Fujiwara and of course Sir Roger Elliott himself make this book a rewarding read

Chemistry: a Science for Today Spencer L. Seager, Howard Stephen Stoker, 1973 **The School Science Review**, 1940 **Technology Review**, 1966-03 **Systems Research II** Kyoichi Kijima, Junichi Iijima, Ryo Sato, Hiroshi Deguchi, Bumpei Nakano, 2022-05-10 This book is in honor of Yasuhiko Takahara a first class researcher who has been active for some 50 years at the global level in systems research Researchers and practitioners from Japan and other countries who have been influenced by Takahara have come together from far and wide to contribute their major research masterpieces in the field of systems research in the broadest sense While the roots of Takahara s systems research are in general systems theory and systems control theory he developed his research and teaching in diverse directions such as management information science engineering social simulation and systems thinking As a result many of the researchers and practitioners he supervised or influenced have established their own positions and are now active around the world in a wide range of systems research Volume II is a collection of their masterpieces or representative works in the fields of systems management theory and practice **Mathematical Reviews**, 2005 **Thermodynamics** Juan Carlos Moreno Piraján, 2011-09-22 Thermodynamics is one of the most exciting branches of physical chemistry which has greatly contributed to the modern

science Being concentrated on a wide range of applications of thermodynamics this book gathers a series of contributions by the finest scientists in the world gathered in an orderly manner It can be used in post graduate courses for students and as a reference book as it is written in a language pleasing to the reader It can also serve as a reference material for researchers to whom the thermodynamics is one of the area of interest **Computers and the Classroom** ,1982 Transforming University Biochemistry Teaching Using Collaborative Learning and Technology Penny J. Gilmer,2010-03-10 One aim of Gilmer s captivating text on university pedagogy is to show that biochemistry or any science does not consist solely of facts to be learned but is a way of thinking about the world Her purpose both in this book and in her classroom is to make her students into critical thinkers rather than passive learners The chapters cast a critical eye over research into enhanced education techniques such as collaborative learning Gilmer describes the action research she conducted in her own biochemistry undergraduate classroom into ways of improving the learning environment She offers various perspectives on the make up of her classroom including an analysis of ethnographic data The tools Gilmer employs as she hones her teaching skills include collaborative learning and technology She views the classroom through various theoretical perspectives social constructivism cultural historical activity theory and a theory that involves the dialectic between the structure of the learning environment and the agency of the learners a group among whom she includes herself She provides a wealth of autobiographical detail as well as the results of her action research which followed up on its original subjects after an interval of 11 years to see what impact her course had on their professional growth Above all this volume is proof of what can be achieved in education when teachers are as interested in the process of learning as they are in their subject itself

Essays in the Philosophy of Chemistry Eric R. Scerri,Grant Andrew Fisher,2016 The philosophy of chemistry has emerged in recent years as a new and autonomous field within the Anglo American philosophical tradition With the development of this new discipline Eric Scerri and Grant Fisher s *Essays in Philosophy of Chemistry* is a timely and definitive guide to all current thought in this field One of the themes of this collection is how philosophy of chemistry can make a contributions to problems of philosophy more generally such as how chemistry and quantum chemistry contribute to the philosophy of the mind *Recent Advances in the Aerospace Sciences* Corrado Casci,2012-12-06 This volume published in honor of Prof Luigi Crocco appears when Luigi Crocco celebrates his 75th birthday of a life devoted to study research and teaching The events in his life and World War II forced Luigi Crocco as well as other Italian scientists to look to foreign countries for the calm haven so vital to study This notwithstanding his scientific activity was never interrupted and this volume is an acknowledgment of scientists and researchers to his work and life Prefazione Questo volume in onore del prof ing Luigi Crocco vede la luce quando Luigi Crocco compie i 75 anni di una vita dedicata allo studio alia ricerca e all insegnamento a Le vicende della vita ed anche della 2 guerra mondiale hanno costretto Luigi Crocco come altri scienziati italiani a dover cercare in altri Paesi quella serenita necessaria per dedicarsi allo studio Ma la sua attivita scientifica non ha

avuto interruzioni e questo volume essere la testimonianza di studiosi e di ricercatori alla sua opera e alla sua vita

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Remsen, Charles August Rouiller, 1888 *Introduction to Hydrogen Technology* K. S. V. Santhanam, Roman J. Press, Massoud J. Miri, Alla V. Bailey, Gerald A. Takacs, 2017-10-23 Introduces the field of hydrogen technology and explains the basic chemistry underlying promising and innovative new technologies This new and completely updated edition of *Introduction to Hydrogen Technology* explains at an introductory level the scientific and technical aspects of hydrogen technology It incorporates information on the latest developments and the current research in the field including new techniques for isolating and storing hydrogen usage as a fuel for automobiles residential power systems mobile power systems and space applications *Introduction to Hydrogen Technology Second Edition* features classroom tested exercises and sample problems It details new economical methods for isolating the pure hydrogen molecule These less expensive methods help make hydrogen fuel a very viable alternative to petroleum based energy The book also adds a new chapter on hydrogen production and batteries It also provides in depth coverage of the many technical hurdles in hydrogen storage The developments in fuel cells since the last edition has been updated Offers new chapters on hydrogen production storage and batteries Features new sections on advanced hydrogen systems new membranes greenhouse gas sensors and updated technologies involving solar and wind energies Includes problems at the end of the Chapters as well as solutions for adopters This book is an introduction to hydrogen technology for students who have taken at least one course in general chemistry and calculus it will also be a resource book for scientists and researchers working in hydrogen based technologies as well as anyone interested in sustainable energy **Unfolding the Geology of the West** Stephen M. Keller, Matthew L. Morgan, 2016-09-20 Sixteen

geologic field guides explore areas in Colorado New Mexico Utah and Montana **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1974 **Technical Book Review Index**, 1967 Practical Druggist and Pharmaceutical Review of Reviews Benjamin Lillard, 1928 **The Interdisciplinary Earth: In Honor of Don L. Anderson** Gillian R. Foulger, Michele Lustrino, Scott D. King, 2015-09 Copublished with the American Geophysical Union as American Geophysical Union Special Publication 71 This volume is a memorial to Don L. Anderson former director of the Seismological Laboratory of the Caltech Institute of Technology recipient of the Crafoord Prize the National Medal of Honor and numerous other awards A geophysicist extraordinaire he contributed much to our understanding of the structure and dynamics of the interior of Earth The book comprised largely of chapters written at Anderson's invitation reflects his interdisciplinary career

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