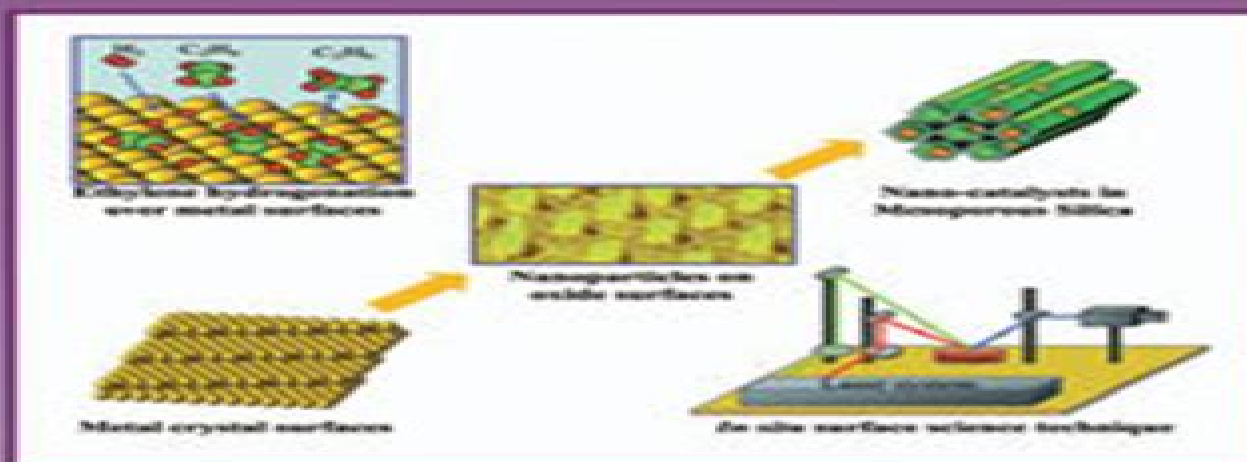


INTRODUCTION TO SURFACE CHEMISTRY AND CATALYSIS

SECOND EDITION



Gabor A. Somorjai
Yimin Li

Introduction To Surface Chemistry And Catalysis

Michalis Konsolakis



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Introduction to Surface Chemistry and Catalysis Gabor A. Somorjai, 1994-03-18 Among the topics covered are adhesion and tribological properties friction crack formation and lubrication

Introduction to Surface Chemistry and Catalysis Gabor A. Somorjai, Yimin Li, 2010-06-08 Now updated the current state of development of modern surface science Since the publication of the first edition of this book molecular surface chemistry and catalysis science have developed rapidly and expanded into fields where atomic scale and molecular information were previously not available This revised edition of Introduction to Surface Chemistry and Catalysis reflects this increase of information in virtually every chapter It emphasizes the modern concepts of surface chemistry and catalysis uncovered by breakthroughs in molecular level studies of surfaces over the past three decades while serving as a reference source for data and concepts related to properties of surfaces and interfaces The book opens with a brief history of the evolution of surface chemistry and reviews the nature of various surfaces and interfaces encountered in everyday life New research in two crucial areas nanomaterials and polymer and biopolymer interfaces is emphasized while important applications in tribology and catalysis producing chemicals and fuels with high turnover and selectivity are addressed The basic concepts surrounding various properties of surfaces such as structure thermodynamics dynamics electrical properties and surface chemical bonds are presented The techniques of atomic and molecular scale studies of surfaces are listed with references to up to date review papers For advanced readers this book covers recent developments in in situ surface analysis such as high pressure scanning tunneling microscopy ambient pressure X ray photoelectron spectroscopy and sum frequency generation vibrational spectroscopy SFG Tables listing surface structures and data summarizing the kinetics of catalytic reactions over metal surfaces are also included New to this edition A discussion of new physical and chemical properties of nanoparticles Ways to utilize new surface science techniques to study properties of polymers reaction intermediates and mobility of atoms and molecules at surfaces Molecular level studies on the origin of the selectivity for several catalytic reactions A microscopic understanding of mechanical properties of surfaces Updated tables of experimental data A new chapter on soft surfaces polymers and biointerfaces

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Introduction to Surface Chemistry and Catalysis, Second Edition Gabor A. Somorjai, Yimin Li, 2010

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Introduction to Surface Physical Chemistry K. Christmann, 2013-06-29

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fertile area and the book is an excellent stimulus to researchers at the start of the 21st century **BOOK JACKET** **Surface Science** Kurt W. Kolasinski, 2008-04-30 Surface chemistry is an essential and developing area of physical chemistry and one that has become increasingly interdisciplinary The Second Edition of Surface Science Foundations of Catalysis and Nanoscience has been fully revised and updated to reflect all the latest developments in the field and now includes an extensive discussion about nanoparticle growth and the quantum confinement effects in nanoscale systems Two new chapters have been added and discuss The Liquid Solid Interface and Non Thermal Reactions and Photon and Electron Stimulated Chemistry and Atom Manipulation There are now many more worked examples included throughout to help students develop their problem solving skills **Reactions at Solid Surfaces** Gerhard Ertl, 2009-10-26 Expanding on the ideas first presented in Gerhard Ertl's acclaimed Baker Lectures at Cornell University Reactions at Solid Surfaces comprises an authoritative self contained book length introduction to surface reactions for both professional chemists and students alike Outlining our present understanding of the fundamental processes underlying reactions at solid surfaces the book provides the reader with a complete view of how chemistry works at surfaces and how to understand and probe the dynamics of surface reactions Comparing traditional surface probes with more modern ones and bringing together various disciplines in a cohesive manner Gerhard Ertl's Reactions at Solid Surfaces serves well as a primary text for graduate students in introductory surface science or chemistry as well as a self teaching resource for professionals in surface science chemical engineering or nanoscience **Principles and Practice of Heterogeneous Catalysis** John Meurig Thomas, W. John Thomas, 2014-12-11 This long awaited second edition of the successful introduction to the fundamentals of heterogeneous catalysis is now completely revised and updated Written by internationally acclaimed experts this textbook includes fundamentals of adsorption characterizing catalysts and their surfaces the significance of pore structure and surface area solid state and surface chemistry poisoning promotion deactivation and selectivity of catalysts as well as catalytic process engineering A final section provides a number of examples and case histories With its color and numerous graphics plus references to help readers to easily find further reading this is a pivotal work for an understanding of the principles involved **An Introduction to Surface Chemistry** Eric Keightley Rideal, 2015-09-06 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact and remains as true to the original work as possible Therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work As a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available

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Principles of Adsorption and Reaction on Solid Surfaces As with other books in the field Principles of Adsorption and Reaction on Solid Surfaces describes what occurs when gases come in contact with various solid surfaces But unlike all the others it also explains why While the theory of surface reactions is still under active development the approach Dr Richard Masel takes in this book is to outline general principles derived from thermodynamics and reaction rate theory that can be applied to reactions on surfaces and to indicate ways in which these principles may be applied The book also provides a comprehensive treatment of the latest quantitative surface modeling techniques with numerous examples of their use in the fields of chemical engineering physical chemistry and materials science A valuable working resource and an excellent graduate level text Principles of Adsorption and Reaction on Solid Surfaces provides readers with A detailed look at the latest advances in understanding and quantifying reactions on surfaces In depth reviews of all crucial background material 40 solved examples illustrating how the methods apply to catalysis physical vapor deposition chemical vapor deposition electrochemistry and more 340 problems and practice exercises Sample computer programs Universal plots of many key quantities Detailed class tested derivations to help clarify key results The recent development of quantitative techniques for modeling surface reactions has led to a number of exciting breakthroughs in our understanding of what happens when gases come in contact with solid surfaces While many books have appeared describing various experimental modeling techniques and the results obtained through their application until now there has been no single volume reference devoted to the fundamental principles governing the processes observed The first book to focus on governing principles rather than experimental techniques or specific results Principles of Adsorption and Reaction on Solid Surfaces provides students and professionals with a quantitative treatment of the application of principles derived from the fields of thermodynamics and reaction rate theory to the investigation of gas adsorption and reaction on solid surfaces Writing for a broad based audience including among others chemical engineers chemists and materials scientists Dr Richard I Masel deftly balances basic background in areas such as statistical mechanics and kinetics with more advanced applications in specialized areas Principles of Adsorption and Reaction on Solid Surfaces was also designed to provide readers an opportunity to quickly familiarize themselves with all of the important quantitative surface modeling techniques now in use To that end the author has included all of the key equations involved as well as numerous real world illustrations and solved examples that help to illustrate how the equations can be applied He has also provided computer programs along with universal plots that make it easy for readers to apply results to their own problems with little computational effort Principles of Adsorption and Reaction on Solid Surfaces is a valuable working resource for chemical engineers physical chemists and materials scientists and an excellent text for graduate students in those disciplines The Journal of Physical Chemistry ,1915 *Journal of Physical &*

Colloid Chemistry, 1927 Includes section New Books *Surface Chemistry and Catalysis* Michalis Konsolakis, 2018-09-27

This book is a printed edition of the Special Issue Surface Chemistry and Catalysis that was published in *Catalysts*

Surface Science Reports, 1999 *Textile Technology Digest*, 1995 *Introduction To Heterogeneous Catalysis (Second Edition)* Roel Prins, Anjie Wang, Xiang Li, Foteini Sapountzi, 2022-06-24 Catalysis is a multidisciplinary subject This book introduces the chemical materials and engineering principles of catalysis so that both MSc and PhD students with a basic but not extensive knowledge of chemistry and physics and those with a basic understanding of chemical engineering can learn more about catalysis Examples are taken from catalytic reactions and catalysts used in the energy petroleum and base chemicals industry The second edition differs from the first edition in the way basic topics are integrated with catalytic applications The authors introduce two new chapters Cleaning of Fuels by Hydrotreating and Electrocatalysis Hydrotreating is a very important industrial process and offers the opportunity to discuss metal sulfide catalysts Electrocatalysis gains more and more attention because it can be used to minimize the anthropogenic CO emissions Solar wind and hydroelectricity can drive water electrolysis and CO electroreduction and therefore excess renewable electricity can be stored in chemicals *Introduction to Heterogeneous Catalysis Second Edition* is intended for a one semester course for master and PhD students who want to learn more about the principles of catalysis This must read textbook will enable students to read catalysis literature without much difficulty and presents not only the basic concepts of catalysis but integrates the chemical materials and engineering aspects of catalysis with industry examples *Fundamental Aspects of Heterogeneous Catalysis Studied by Particle Beams* H.H. Brongersma, R.A. van Santen, 2013-03-08 Present day heterogeneous catalysis is rapidly being transformed from a technical art into a science based technology A major contribution to this important change is the advance of surface spectroscopic techniques able to characterize the complex surfaces of the heterogeneous catalytic system The Advanced Study Institute on which the current proceedings is based has as its primary aim the bringing together of a variety of lecturers outstanding in those fields of experience to enable a broad coverage of different relevant approaches Not only catalyst characterization but also catalytic reactivity had to be covered in order to relate catalyst properties with catalyst performance Since modern catalysis relates catalytic performance to microscopic molecular catalyst features theoretical electronic aspects also had to be included The Advanced Study Institute had a unique feature in that it brought together physicists catalytic chemists and chemical engineers whom rarely directly interact From physics especially new experimental possibilities of beams were emphasized At present it is possible to obtain very detailed information on model catalysts whilst the applications to practical catalysts are gaining rapidly in sophistication Apart from the plenary lectures the Institute included hot topics to highlight special developments and offered participants the opportunity to present contributed papers either orally or as a poster These contributions formed an integral part of the summer school and significantly enhanced the interaction between participants Inclusion of the hot topics and contributed papers in these

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