

# Heterogeneous Catalysis in Practice (McGraw-Hill chemical engineering series)

Satterfield, Charles

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# Heterogeneous Catalysis In Practice McGraw Hill Chemical Engineering Series

**Robert L. Augustine**



## **Heterogeneous Catalysis In Practice McGraw Hill Chemical Engineering Series:**

Heterogeneous Catalysis in Industrial Practice Charles N. Satterfield, 1991-01-01      Heterogeneous Catalysis in Practice Charles N. Satterfield, 1980      **Principles and Practice of Heterogeneous Catalysis** John Meurig Thomas, W. John Thomas, 1996-10-07 Catalysis occupies a pivotal position in the physical and biological sciences As well as being the mainstay of the chemical industry it is the means of effecting many laboratory syntheses and the root cause of all enzymatic processes This book is an eminently readable introduction to the fundamental principles of heterogeneous catalysis Written by world renowned experts it explains the vocabulary grammar and literature of catalysis from the laboratory oriented model study through to the operating plant Didactically skillful and using many lucidly designed figures the authors present an insightful exposition of all important concepts new developments and techniques in this rapidly advancing field      **Chemical Engineering, Volume 3** D G Peacock, J.F. Richardson, 2012-12-02 The publication of the third edition of Chemical Engineering Volume 3 marks the completion of the re orientation of the basic material contained in the first three volumes of the series Volume 3 is devoted to reaction engineering both chemical and biochemical together with measurement and process control This text is designed for students graduate and postgraduate of chemical engineering      **Introduction to Zeolite Science and Practice** E.M. Flanigen, J.C. Jansen, Herman van Bekkum, 1991-02-05 Zeolites and related molecular sieves have quickly become important pathways to new opportunities in the fields of oil processing and petrochemical synthesis The signs of intense activity in both industry and academia are evident burgeoning papers and patent applications increasing numbers of industrial zeolite based processes and their rapid expansion into organic chemicals manufacturing recent progress in zeolite accessibility range matrix behaviour lattice components and satellite structures and the recognition that zeolites which are stable and can be regenerated may be incorporated into new environmentally friendly processes This volume offers a thorough up to date introduction to zeolites and such related materials as crystalline aluminium phosphates and clays Its 16 chapters each written by specialists provide detailed treatments of zeolite theory including a review of major developments zeolite laboratory and research practice and zeolite industry applications Students and individuals entering the field will find Introduction to Zeolite Science and Practice a thorough guidebook Experienced researchers will appreciate its in depth coverage of the zeolite spectrum including the latest views on zeolite structure characterization and applications      *Wetting: Theory and Experiments, Two-Volume Set* Eli Ruckenstein, Gersh Berim, 2019-12-17 Wetting Theory and Experiments collates papers published by Professor Eli Ruckenstein and his coworkers on the theoretical and experimental investigation of wetting of solid surfaces It contains six chapters each of which is preceded by a short introduction The papers are selected according to the specific features being considered and they are arranged in logical rather than chronological order The book focuses on wetting on the nanoscale nanodrops on solid surfaces liquid in the nanoslit considered on the basis of microscopic density functional theory and to dynamics of fluid on the

solid surface considered on the basis of hydrodynamic equations Along with this experimental studies of wetting related to various applications are presented

**Catalysis** John R. Anderson, Michel Boudart, 2012-12-06 Catalytic oxidation processes are of central importance to a substantial part of large scale chemical industry Indeed this area of industrial catalysis has an extremely long history which stretches back well into the last century The development and growth of catalytic oxidation processes for the manufacture of commodities such as sulfuric acid and nitric acid can be viewed as indicators for the growth of the early and middle years of the entire inorganic chemical industry and in an analogous fashion the manufacture of products such as phthalic anhydride maleic anhydride and ethylene oxide has been central to the development of an organic chemical industry We should all be able to learn from history and present day scientists and technologists will find considerable benefit in following the account of the historical development of catalytic oxidation processes presented in Chapter I by Drs G Chinchin P Davies and R J Sampson Alkenes are important intermediates in many processes in organic chemical industry Being mostly petroleum derived the alkene availability pattern does not necessarily match consumption requirements and an alkene inter conversion process such as metathesis is clearly of industrial importance In fact alkene metathesis in addition to its industrial significance poses an interesting mechanistic problem upon which considerable effort has been expended in recent years and which is now fairly well understood

**Catalysis** J. R. Anderson, M. Boudart, 2012-12-06

NMR methods have for a considerable time been standard processes for the analysis of molecular structure so much so that they are now universally regarded as indispensable for this purpose Nevertheless with the passage of time NMR methodology has been elaborated to levels of ever increasing complexity and analytical sophistication so that the non specialist may now be readily excused for the belief that for anything beyond relatively elementary methods one would be well advised to work in collaboration with the specialist experts The application of NMR methods to the field of catalysis occurred in the main relatively late in the day mainly because those catalysts of greatest industrial importance that is heterogeneous catalysts are solids and so require special NMR methods if usefully narrow NMR lines are to be observable Even so magic angle spinning NMR methodology is now thoroughly well established and is finding increasing use in the study of catalyst structure Of course conventional NMR methods have been used for a considerable time for the analysis of the products of catalytic reactions Chapter 1 of the present volume by Professor Jacques Fraissard and his collaborators is designed to give an account of the application of NMR methods to the field of catalysis but not including the conventional use of NMR for reaction product analysis since this is already well covered in the existing NMR literature

*State-of-the-Art Program on Compound Semiconductors : (SOTAPOCS XLII) and Processes at the Compound-Semiconductor/Solution Interface* P. C. Chang, 2005

**Wetting Experiments** Eli Ruckenstein, Gersh Berim, 2018-11-14 Wetting Experiments contains experimental wetting studies related to biological problems polymers and catalysts An understanding of wetting is important for numerous practical applications such as preparing self cleaning surfaces manufacturing artificial blood vessels

and developing new lubricants and nonadhesive dishes As part of Wetting Theory and Experiments Two Volume Set this volume provides new insights into wetting experiments and fills a need not addressed by other books Biology related studies are devoted to the problem synthetic materials selection for use in biological media Polymers are examined to estimate various surface characteristics such as the ability of polymeric solids to alter their surface structures between different environments to minimize their interfacial free energy Aimed at engineers physical scientists and materials scientists this volume addresses the key areas of wetting providing insights valuable to the field

*Heterogeneous Catalysis for the Synthetic Chemist* Robert L. Augustine, 2020-08-11 This work delineates the effect of different reaction variables on the outcome of heterogeneously catalyzed reactions and explains how to optimize the product yield of specific compounds Metal catalysis simple and complex oxides zeolites and clays are discussed both as catalysts and as potential supports for catalytically active metals

**Progress in Catalysis** K.J. Smith, E.C. Sanford, 1992-05-25 This volume contains papers and short communications presented at the 12th Canadian Symposium on Catalysis The aim of the meeting was to present an update on new and established areas of catalysis research being performed in industry government and university laboratories Topics covered relate mainly to resource processing such as heavy oil and natural gas upgrading and to environmental issues Approximately half the papers are included in sections on hydrogenation carbon carbon bond formation and environmental issues The remaining papers cover general topics and homogeneous reactions Examples include studies of hydroprocessing catalysts carbon carbon bond formation via methane oxidative coupling and dimerization of olefins homogeneous catalysts in polymerization and dimerization reactions performance of pillared clays metal oxygen cluster compounds zeolites and catalysts prepared by metal oxide vapour synthesis Studies that address the environmental issues include wet air oxidation catalytic elimination of organics oxidation reactions and catalyst regeneration The book provides practitioners of catalysis with an update on a wide number of topics and will be particularly useful to those interested in an overview of current catalysis research activities Specialists in the areas of hydrogenation carbon carbon bond formation homogeneous catalysis and environmental issues will also find a valuable set of new data and interesting discussions on these topics

*Heterogeneous Catalysis in Organic Transformations* Varun Rawat, Anirban Das, Chandra Mohan Srivastava, 2022-04-26 As the broad challenges around energy and the environment have become the focus of much research scientists and experts have dedicated their efforts to developing more active and selective catalytic systems for key chemical transformations For many decades environmentally viable protocols for the synthesis of fine chemicals have been the crux of academic and industrial research Heterogeneous Catalysis in Organic Transformations serves as an overview of this work providing a complete description of role of heterogeneous catalysis in organic transformations and offering a review of the current and near future technologies and applications Discusses the fundamentals of catalysis and compares the advantages and disadvantages of different types of catalyst systems Examines oxide nanoparticles and noble metal nanoparticles

Consider organometallic compounds solid supported catalysts and mesoporous materials Describes recent advances in metal based heterogeneous catalysts and new reactions with possible mechanistic pathways Providing a comprehensive review of heterogeneous catalysis from the basics through recent advances this book will be of keen interest to undergraduates graduates and researchers in chemistry chemical engineering and associated fields **Introduction to Catalytic**

**Combustion** R.E. Hayes,2021-10-24 In a clear and concise manner this book explains how to apply concepts in chemical reaction engineering and transport phenomena to the design of catalytic combustion systems Although there are many textbooks on the subject of chemical reaction engineering catalytic combustion is mentioned either only briefly or not at all The authors have chosen three examples where catalytic combustion is utilized as a primary combustion process and natural gas is used as a fuel stationary gas turbines process fluid heaters and radiant heaters these cover much of the area where research is currently most active In each of these there are clear environmental benefits to be gained illustrating catalytic combustion as a cleaner primary combustion process The dominant heat transfer processes in each of the applications are different as are the support systems flow geometrics and operating conditions **Heterogeneous Catalysis** Abdullah A.

Shaikh,2023-09-05 This textbook is a concise introduction to heterogeneous catalysis focusing on the fundamentals and industrial implementation It is written in a clear manner using language that is easily accessible to undergraduate students in chemical engineering and industrial chemistry The textbook includes exercise problems and practice software New in this edition are sections on catalyst preparation and manufacture kinetic parameter estimation and catalytic transport line reactors Solutions to all the example problems are now provided **Engineering Catalysis** Dmitry Yu. Murzin,2020-02-10

The book illuminates various aspects of heterogeneous catalysis engineering from catalysis design catalyst preparation and characterization reaction kinetics mass transfer and catalytic reactors to the implementation of catalysts in chemical technology Aimed at graduate students it is also a useful resource for professionals working in research and development

**Handbook of Commercial Catalysts** Howard F. Rase,2016-04-05 Despite the advances in understanding the phenomena that occur on a catalyst surface much of the successful catalyst development and use continues to be half science and half art The art resides in the practical knowledge of experts in the development and use of commercial catalysts it comes with experience Now the background needed to nurture t **Green Technologies in Food Production and Processing** Joyce

I. Boye,Yves Arcand,2012-01-10 Examining the full cycle from farm to fork this book reviews the current status of green processing in the agriculture and agri food sector and provides strategies for enhancing the use of environmentally friendly technologies for production and processing **Fine Chemicals Manufacture** A. Cybulski,M.M. Sharma,R.A. Sheldon,J.A.

Moulijn,2001-12-10 The sector of fine chemicals including pharmaceuticals agrochemicals dyes and pigments fragrances and flavours intermediates and performance chemicals is growing fast For obvious reasons chemistry is a key to the success in developing new processes for fine chemicals However as a rule chemists formulate results of their work as recipes which

usually lack important information for process development Fine Chemicals Manufacture Technology and Engineering is intended to show what is needed to make the recipe more useful for process development purposes and to transform the recipe into an industrial process that will be safe environmentally friendly and profitable The goal of this book is to form a bridge between chemists and specialists of all other branches involved in the scale up of new processes or modification of existing processes with both a minimum effort and risk and maximum profit when commercializing the process New techniques for scale up and optimization of existing processes and improvements in the utilization of process equipment that have been developed in recent years are presented in the book

**Fundamentals of Industrial Catalytic Processes** C. H. Bartholomew, Robert J. Farrauto, 2011-11-30 Catalysis is central to the chemical industry as it is directly or involved in the production of almost all useful chemical products In this book the authors present the definitive account of industrial catalytic processes Throughout Fundamentals of Industrial Catalytic Processes the information is illustrated with many case studies and problems This book is valuable to anyone wanting a clear account of industrial catalytic processes but is particularly useful to industrial and academic chemists and engineers and graduate working on catalysis This book also Covers fundamentals of catalytic processes including chemistry catalyst preparation properties and reaction engineering Addresses heterogeneous catalytic processes employed by industry Provides detailed data on existing catalysts and catalytic reactions process design and chemical engineering Covers catalysts used in fuel cells

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