

*Otto Weisser · Stanislav Landa*

***sulphide catalysts  
their properties  
and applications***

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# Sulphide Catalysts Their Properties And Applications

**J.L. Figueiredo**



## **Sulphide Catalysts Their Properties And Applications:**

*Sulphide Catalysts, Their Properties and Applications* Otto Weisser,Stanislav Landa,2013-10-22 Sulphide Catalysts Their Properties and Applications Sulphide Catalysts, Their Properties and Applications Otto Weisser,Stanislav Landa,1973

Encyclopedic Dictionary of Named Processes in Chemical Technology Alan E. Comyns,2007-06-07 Recommended by Choice Current Reviews for Academic Libraries Covering a broad spectrum of chemical technology from the gigantic Bessemer process for making steel to the microscopic Manasevit process for applying circuits to silicon chips the Encyclopedic Dictionary of Named Processes in Chemical Technology Third Edition *Catalysis* C Kemball,2007-10-31 There is an increasing challenge for chemical industry and research institutions to find cost efficient and environmentally sound methods of converting natural resources into fuels chemicals and energy Catalysts are essential to these processes and the Catalysis Specialist Periodical Report series serves to highlight major developments in this area This series provides systematic and detailed reviews of topics of interest to scientists and engineers in the catalysis field The coverage includes all major areas of heterogeneous and homogeneous catalysis and also specific applications of catalysis such as NO<sub>x</sub> control kinetics and experimental techniques such as microcalorimetry Each chapter is compiled by recognised experts within their specialist fields and provides a summary of the current literature This series will be of interest to all those in academia and industry who need an up to date critical analysis and summary of catalysis research and applications Catalysis will be of interest to anyone working in academia and industry that needs an up to date critical analysis and summary of catalysis research and applications Specialist Periodical Reports provide systematic and detailed review coverage in major areas of chemical research Compiled by teams of leading experts in their specialist fields this series is designed to help the chemistry community keep current with the latest developments in their field Each volume in the series is published either annually or biennially and is a superb reference point for researchers [www.rsc.org](http://www.rsc.org) spr Catalysis C. Kemball,1991-02-28 There is an increasing challenge for chemical industry and research institutions to find cost efficient and environmentally sound methods of converting natural resources into fuels chemicals and energy Catalysts are essential to these processes and the Catalysis Specialist Periodical Report series serves to highlight major developments in this area This series provides systematic and detailed reviews of topics of interest to scientists and engineers in the catalysis field The coverage includes all major areas of heterogeneous and homogeneous catalysis and also specific applications of catalysis such as NO<sub>x</sub> control kinetics and experimental techniques such as microcalorimetry Each chapter is compiled by recognised experts within their specialist fields and provides a summary of the current literature This series will be of interest to all those in academia and industry who need an up to date critical analysis and summary of catalysis research and applications Catalysis will be of interest to anyone working in academia and industry that needs an up to date critical analysis and summary of catalysis research and applications Specialist Periodical Reports provide systematic and detailed review coverage in major areas of chemical

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hydrotreatment and hydrocracking processes It is clear from the keynote lectures the oral contributions and the posters of this meeting that adapting the operating conditions will not suffice Adequate catalysts need to be developed with different composition and structure Surface science techniques and molecular modeling are now well established tools for such a development They should be of help in widely different aspects like the role of precursors in the preparation or the modifications undergone by the catalyst under reaction conditions The improvement of hydrotreatment and hydrocracking also needs accurate modeling of the chemical reactor This requires more representative hydrodynamics and kinetic models whose validity extends to the very low S and N contents These areas should be vigorously developed

**Principles of Catalyst Development** James T. Richardson, 2013-12-21 Successful industrial heterogeneous catalysts fulfill several key requirements in addition to high catalytic activity for the desired reaction with high selectivity where appropriate they also have an acceptable commercial life and are rugged enough for transportation and charging into plant reactors Additional requirements include the need to come online smoothly in a short time and reproducible manufacturing procedures that involve convenient processes at acceptable cost The development of heterogeneous catalysts that meet these often mutually exclusive demands is far from straightforward and in addition much of the actual manufacturing technology is kept secret for commercial reasons thus there is no modern text that deals with the whole of this important subject **Principles of Catalyst Development** which deals comprehensively with the design development and manufacture of practical heterogeneous catalysts is therefore especially valuable in meeting the long standing needs of both industrialists and academics As one who has worked extensively on a variety of catalyst development problems in both industry and academia James T Richardson is well placed to write an authoritative book covering both the theory and the practice of catalyst development Much of the material contained in this book had its origin in a series of widely acclaimed lectures attended mainly by industrial researchers given over many years in the United States and Europe All those in industry who work with catalysts both beginners and those of considerable experience should find this volume an essential guide

**Preparation of Catalysts IV** G. Poncelet, B. Delmon, P. Grange, P.A. Jacobs, 1987-05-01 The proceedings of the IVth International Symposium on the Scientific Bases for the Preparation of Heterogeneous Catalysts are presented in this volume Since its start in 1975 this series of Symposia has continued to attract increasing scientific attention An appreciable proportion of the papers presented at this Fourth Symposium stemmed from industrial research laboratories The symposium dealt with catalysts for selective oxidation hydrodesulphurization Fischer Tropsch catalysis methanol synthesis metal supported catalysts and new trends in catalyst preparation

**Hydrogen Effects in Catalysis** Zoltan Paal, P.G. Menon, 2020-09-11 This book covers hydrogen effects in catalysis in the broadest sense from surface science to industrial applications It draws the attention of the catalysis community to the importance of the phenomena of hydrogen effects both in the science and technology of catalysis

**Catalysis** G. C. Bond, G. A. Webb, 1982 Catalysis will be of interest to anyone working in academia and industry that needs

an up to date critical analysis and summary of catalysis research and applications      *Encyclopedic Dictionary of Named Processes in Chemical Technology, Fourth Edition* Alan E. Comyns, 2014-02-21 Since the third edition of this reference was completed there have been major changes in the global chemical industry With less emphasis on new processes for making basic chemicals and more emphasis on pollution prevention and waste disposal petrochemical processes are giving way to biochemical processes These changes are reflected in the new processes being developed many of which have their own names In addition niche improvements are still being made in petrochemistry and some of these processes have new names as well Gathering and defining a large portion of special named processes that may fall outside standard chemical texts or be scattered among industry manuals *Encyclopedic Dictionary of Named Processes in Chemical Technology Fourth Edition* provides a single source reference on an extensive array of named processes It provides concise descriptions of those processes in chemical technology that are known by special names that are not self explanatory While overviews of the chemical technology industry are present in other books most of the names defined within this volume are unique to this compilation This reference includes named processes in current commercial use around the world processes that have been or are being piloted on a substantial scale and even obsolete processes that have been important in the past The length of the dictionary entries reflects their importance and topicality The text includes references that document the origins of the processes and review the latest developments Written by a highly experienced and respected author this user friendly text is presented in a practical dictionary format that is useful for a broad audience including industrial chemists and engineers

Progress in Catalyst Deactivation J.L. Figueiredo, 2012-12-06 Most catalysts used in the chemical and petrochemical industries are strongly affected by one or another form of deactivation leading to poor performances and reduced life The increasing number of scientific communications devoted to the subject in recent years and culminating with an International Symposium held in Antwerp in October 1980 is a measure of the interest it arouses in both the industrial and academic communities A stage has been reached whereby it was thought that a NATO Advanced Study Institute on Catalyst Deactivation might be fruitful in establishing the state of the art and in stimulating a more systematic research on the phenomenon Such a meeting was held in Lagos Portugal from 18 to 29 May 1981 The purpose of the Institute was to present and discuss in a didactic and systematic way the various processes that lead to catalyst deactivation namely coking poisoning and solid state transformations and at the same time to promote the exchange of ideas and experiences among the participants drawn from industry and university The lectures presented at the Institute are collected in this volume with the exception of Dr L L Hegedus Catalyst Poisoning which has been previously published *Catalysis Reviews Science and Engineering* 23 377 476 1981      *New Horizons in Catalysis: Part 7B. Proceedings of the 7th International Congress on Catalysis, Tokyo, 30 June-4 July 1980 (Studies in Surface Science and Catalysis)* Tetsuro Seiyama, 2000-04-01 *New Horizons in Catalysis Part 7B Proceedings of the 7th International Congress on Catalysis Tokyo 30 June 4 July 1980 Studies in Surface*

Science and Catalysis      **Inorganic Reactions and Methods, Reactions Catalyzed by Inorganic Compounds** A. P. Hagen, 2009-09-17 For the first time the discipline of modern inorganic chemistry has been systematized according to a plan constructed by a council of editorial advisors and consultants among them three Nobel laureates E O Fischer H Taube and G Wilkinson Rather than producing a collection of unrelated review articles the series creates a framework which reflects the creative potential of this scientific discipline Thus it stimulates future development by identifying areas which are fruitful for further research The work is indexed in a unique way by a structured system which maximizes its usefulness to the reader It augments the organization of the work by providing additional routes of access for specific compounds reactions and other topics      Proceedings of the First International Conference on Recent Advances in Bioenergy Research Sachin Kumar, Samir Kumar Khanal, Y. K. Yadav, 2016-04-25 This contributed volume aims to provide latest updates in the area of bioenergy including biodiesel bioethanol biomethanation biomass gasification and biomass cook stove The proceedings of ICRABR 2015 include cutting edge research vital to RThermochemical Conversion Processes Biochemical Conversion Processes Catalytic Conversion Processes Electrochemical Processes Waste Treatment to Harvest Energy and Integrated Processes The contents of the volume will appeal to students researchers professionals and policymakers in the field of bifuels and bioenergy      Mechanochemistry in Nanoscience and Minerals Engineering Peter Balaz, 2008-10-20 Mechanochemistry as a branch of solid state chemistry enquires into processes which proceed in solids due to the application of mechanical energy This provides a thorough up to date overview of mechanochemistry of solids and minerals Applications of mechanochemistry in nanoscience with special impact on nanogeoscience are described Selected advanced identification methods most frequently applied in nanoscience are described as well as the advantage of mechanochemical approach in minerals engineering Examples of industrial applications are given Mechanochemical technology is being applied in many industrial fields powder metallurgy synthesis of nanometals alloys and nanocompounds building industry activation of cements chemical industry solid waste treatment catalyst synthesis coal ashes utilization minerals engineering ore enrichment enhancement of processes of extractive metallurgy agriculture industry solubility increase of fertilizers and pharmaceutical industry improvement of solubility and bioavailability of drugs This reference serves as an introduction to newcomers to mechanochemistry and encourages more experienced researchers to broaden their knowledge and discover novel applications in the field      **Index of Reviews in Organic Chemistry, 1973** Lewis, 1989-01-19

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