



Pyrolysis: Theory and Industrial Practice

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Pyrolysis Theory And Industrial Practice

S. P. Srivastava, Jenő Hancsók



Pyrolysis Theory And Industrial Practice:

Pyrolysis, Theory and Industrial Practice Lyle Frederick Albright, Billy L. Crynes, William Harrison Corcoran, 1983

Pyrolysis of Organic Molecules Serban C. Moldoveanu, 2018-11-14 Pyrolysis of Organic Molecules Applications to Health and Environmental Issues Second Edition offers a systematic presentation of pyrolysis results for the main classes of non polymeric organic molecules It covers a large body of data published on pyrolysis as well as numerous original contributions to the pyrolysis of compounds not previously studied This thoroughly revised edition contains new results reported in the literature since the first edition published including the generation of traces of toxic compounds in various pyrolytic processes the pyrolysis in the presence of catalysts and solid supports such as alumina silica and non inert metals and pyrolysis of specific mixtures of compound such as amino acids plus carbohydrates This new information regarding the pyrolysis of these mixtures has greatly improved the utility of the book making Pyrolysis of Organic Molecules an essential resource for chemists and chemical engineers involved in processes related to pyrolysis as well as toxicologists and environmentalists Presents new information on the pyrolysis of specific compounds Includes data on the mechanisms and kinetics of pyrolytic processes Provides data on the influence of catalysts and solid supports on pyrolytic processes

Natural Gas Conversion II H.E. Curry-Hyde, R.F. Howe, 1994-07-15 This Symposium provided the opportunity to review progress after more than 10 years of research and development in the field of natural gas conversion Oxidative coupling of methane as a route to higher value fuels or feedstock was a major part of the program The advances in understanding of reaction mechanisms and catalyst structure were discussed in a Plenary paper and in many of the contributed papers The homogeneous gas phase chemistry involved in methane oxidation is relevant not only to oxidative coupling but also to synthesis gas and methanol production via partial oxidation This field is reviewed in a Plenary paper and contributed papers describe developments in catalysts and technology for partial oxidation to synthesis gas and to methanol An alternative route to synthesis gas from methane currently receiving attention is carbon dioxide reforming This technology is reviewed in a Plenary paper and recent advances are described in contributed papers The first detailed account of the Shell SMDS Fischer Tropsch process for production of transport fuels from natural gas recently commercialised in Malaysia is given in this book Papers discuss structural aspects of Fischer Tropsch catalysts modifications of Fischer Tropsch catalysts to produce light olefins and the possibilities of operating a Fischer Tropsch process off shore Methanol as an intermediate in natural gas conversion continues to attract attention and methanol synthesis and conversion are discussed in contributed papers The possibilities of finding new uses for methane are treated in a Plenary paper and arguments for using methane as a fuel rather than a feedstock are also presented Among the new uses of methane considered are the generation of electricity in fuel cells and the use of methane as a reductant for NO_x emissions The papers will be of interest to scientists and engineers working in the field of gas conversion transportation fuels primary petrochemicals and catalysis

Thermal and Catalytic Processes

in Petroleum Refining Serge Raseev, 2003-02-26 This text examines the thermal and catalytic processes involved in the refining of petroleum including visbreaking coking pyrolysis catalytic cracking oligomerization alkylation hydrofining hydroisomerization hydrocracking and catalytic reforming It analyzes the thermodynamics reaction mechanisms and kinetics of each process as well as *Natural Gas Conversion* A. Holmen, K.-J. Jens, S. Kolboe, 1991-05-27 These proceedings reflect the extensive fundamental and applied research efforts that are currently being made on the conversion of gas in particular on the direct conversion of methane The Symposium in Oslo focused on the following topics Direct conversion of methane Fischer Tropsch chemistry methanol conversion and natural gas conversion processes The main aim was to present the state of the art and progress currently being made within each of these areas The book contains the papers presented and includes plenary lectures short communications and posters The papers will be of interest to scientists and engineers working in the field of gas conversion transportation fuels primary petrochemicals and catalysis *Gas-Phase Thermal Reactions* Guy-Marie Côme, 2013-03-14 This book is devoted to Gas Phase Thermal Reactions GPTRs and especially combustion reactions which take place in engines burners and industrial chemical reactors to produce mechanical or thermal energy to incinerate pollutants or to manufacture chemical substances and which play an important part due to the consequences they have on the environment fires and explosions tropospheric pollution greenhouse effect hole in the stratospheric ozone layer The design and running of engines burners incinerators industrial reactors both economical in fuels raw materials and energy efficient safe and clean as well as the scientific evaluation of the causes and the effects of atmospheric pollutions with a view to taking rational environmental decisions which necessitate an understanding of the fundamental mechanisms of these reactions and an access to models allowing numerical simulations of the phenomena being studied to be carried out The analysis of the results of the simulations then allows an optimal solution to be found to the industrial problem or to extrapolate the natural phenomena **New Frontiers in Catalysis, Parts A-C** L. Guzzi, F. Solymosi, P. Tétényi, 1993-04-20 These volumes comprise the proceedings of the major international meeting on catalysis which is held at 4 year intervals The programme focussed on New Frontiers in Catalysis including nontraditional catalytic materials and environmental catalysis The contributions cover a wide range of fundamental applied industrial and engineering aspects of catalysis The extensive range of highly efficient industrial techniques for observing and characterizing catalytically important surfaces is evident The programme covered the following sessions Mechanism theory in situ methods Catalytic reaction on atomically clean surfaces Catalytic reaction on zeolites and related substances New methods and principles for catalyst preparation Hydrotreatment reactions HDS HDN Characterization of catalysts application of novel techniques Selective oxidation New catalytic aspects of heteropoly acids and related compounds Reaction of hydrocarbons Nontraditional catalytic materials Fuel upgrading Alkane activation Acid base catalysis New selective catalytic reactions fine chemicals Environmental catalysis Industrial catalysis deactivation reactivation Synthesis from syngas Electrocatalysis Photocatalysis The invited lectures and 433 papers included

in these volumes present an update on all areas of catalysis and applications *Catalyst Deactivation 1991* C.H. Bartholomew, J.B. Butt, 1991-06-03 Catalyst Deactivation 1991 was an expanded version of earlier highly successful symposia The symposium featured invited and solicited papers including 4 plenary lectures 78 oral presentations and 23 poster papers Most of the papers are contained in this volume The eight main topics emphasised at this most recent symposium were deactivation mechanisms phenomena carbon deposition poisoning and sintering methods modeling and techniques and important catalysts hydrotreating oxides and zeolites All of these areas were well represented as attested by the substantial number of papers contained in these proceedings Four review papers based on the plenary lectures provide state of the art perspectives on new thrusts in deactivation research and development *Mathematical Modelling of Gas-Phase Complex Reaction Systems: Pyrolysis and Combustion*, 2019-06-06 Mathematical Modelling of Gas Phase Complex Reaction Systems Pyrolysis and Combustion Volume 45 gives an overview of the different steps involved in the development and application of detailed kinetic mechanisms mainly relating to pyrolysis and combustion processes The book is divided into two parts that cover the chemistry and kinetic models and then the numerical and statistical methods It offers a comprehensive coverage of the theory and tools needed along with the steps necessary for practical and industrial applications Details thermochemical properties and ab initio calculations of elementary reaction rates Details kinetic mechanisms of pyrolysis and combustion processes Explains experimental data for improving reaction models and for kinetic mechanisms assessment Describes surrogate fuels and molecular reconstruction of hydrocarbon liquid mixtures Describes pollutant formation in combustion systems Solves and validates the kinetic mechanisms using numerical and statistical methods Outlines optimal design of industrial burners and optimization and dynamic control of pyrolysis furnaces Outlines large eddy simulation of turbulent reacting flows **Novel Production Methods for Ethylene, Light Hydrocarbons, and Aromatics** Lyle Albright, 1991-09-25 **Petrochemical Economics** Duncan Seddon, 2010 This compendium gives an overview of the technologies and economics in the production of olefins in the petrochemical industries It highlights the options and costs for producing olefins using different technologies and different feedstocks at a time when the cost of carbon dioxide emissions are set to be included in the production cost Industry professionals engineers research scientists and financiers will find this title a valuable resource **Physical, Chemical And Biological Properties Of Stable Water (Ietm) Clusters - Proceedings Of The First International Symposium** Shui-yin Lo, Benjamin Bonavida, 1998-04-14 This volume introduces IE technology and its cutting edge applications in industrial and medical fields IE characteristics including electrical properties the possible formation mechanism and stability in aqueous solutions are discussed Significant suppression of coke formation in ethylene production and reduction of calcium carbonate scaling in heat transfer equipment in the presence of IE are reported Strong IE effects on purified enzymes bacterial and fungal cells mammalian tissues and immunity are discussed at length Strong IE stimulation of cytokines increasing immune responses to infection and cancer is demonstrated The role of

IE crystals as regulators of specific immune responses is suggested *Thermochemical Process Engineering* ,2016-11-24

Thermochemical Process Engineering the latest edition in the Advances in Chemical Engineering provides up to date information comprehensively presenting updates in a systematic fashion that has made the series of great importance to organic chemists polymer chemists and many biological scientists since its inception in 1960 The series includes contributions from established authorities in the field who combine descriptive chemistry and mechanistic insight to create an understanding on how the chemistry drives the properties Contains reviews by leading authorities in their respective areas Presents up to date reviews of the latest techniques in the modeling of catalytic processes Includes a broad mix of US and European authors as well as academic industrial and research institute perspectives Provides discussions on the connections between computation and experimental methods *Fossil Energy Update* ,1978 *Carbon and Coal Gasification* J.L. Figueiredo,Jacob A. Moulijn,2012-12-06 Carbon gasification reactions form the basis of many important industrial processes such as the combustion of coal and the production of synthesis gas fuel gases and activated carbons They are also involved in metallurgical processes and in the regeneration of coked catalysts Thus understanding the fundamentals of carbon gasification is of vital importance for further technological development Moreover the subject is of interdisciplinary nature involving chemistry materials science and chemical engineering Therefore it was thought that an Advanced Study Institute would be fruitful in establishing the state of the art in bringing together experts from the various sectors involved and in identifying areas of required research and industrial development Such a meeting was held at Alvor Portugal from the 20th to the 31st May 1985 and the lectures presented the results are collected in this volume The present volume is organized in seven chapters The Introduction presents the carbon gasification reactions and their relevance for particular processes and industrial uses In the second chapter the structures of carbon and coal are reviewed together with methods of structural chemical and textural characterization *Fuels and Fuel-Additives* S. P. Srivastava,Jenő Hancsók,2014-01-16 Examines all stages of fuel production from feedstocks to finished products Exploring chemical structures and properties this book sheds new light on the current science and technology of producing energy efficient and environmentally friendly fuels Moreover it explains the role of fuel additives in the production cycle This expertly written and organized guide to fuels and fuel additives also presents requirements rules and regulations including US and EU standards governing automotive emissions fuel quality and specifications alternate fuels biofuels antioxidants deposit control detergents dispersants stabilizers corrosion inhibitors and polymeric fuel additives Fuels and Fuel Additives covers all stages and facets of the production of engine fuels as well as heating and fuel oils The book begins with a quick portrait of the future of fuels and fuel production Then it sets forth the regulations controlling exhaust gas emissions and fuel quality from around the world Next the book covers Processing of engine fuels derived from crude oil including the production of blending components Production of alternative fuels Fuel additives for automotive engines Blending of fuels Key properties of motor

fuels and their effects on engines and the environment Aviation fuels The final chapter of the book deals with fuel oils and marine fuels Each chapter is extensively referenced providing a gateway to the primary and secondary literature in the field At the end of the book a convenient glossary defines all the key terms used in the book Examining the full production cycle from feedstocks to final products Fuels and Fuel Additives is recommended for students engineers and scientists working in fuels and energy production

Deactivation and Poisoning of Catalysts J. Oudar,1985-07-02 Deactivation and Poisoning of Catalysts presents the most current research in the area of heterogeneous catalysis It focuses on the chemically induced effects associated with bonded surface species that cause catalyst activity decline and in some cases a change in catalyst specificity In addition this volume examines poisoning of dispersed metal catalysts the thermodynamics of sulfur metal and carbon metal interactions model poisoning reactions on single crystals deactivation in petroleum refining and petrochemical processes coking of metal catalysts and more The new approaches and solutions to catalyst deactivation and poisoning presented in this guide are invaluable to all heterogeneous catalysis specialists including chemical and petroleum engineers and surface synthetic physical and industrial chemists Book jacket

Combustion Generated Fine Carbonaceous Particles Andrea D'Anna,2014-08-13 Soot is of importance for its contribution to atmospheric particles with their adverse health impacts and for its contributions to heat transfer in furnaces and combustors to luminosity from candles and to smoke that hinders escape from buildings during fires and that impacts global warming or cooling The different chapters of the book address comprehensively the different aspects from fundamental approaches to applications in technical combustion devices

Coal and Coal-Related Compounds Toshiaki Kabe,Atsushi Ishihara,Eika Weihua Qian,I. Putu Sutrisna,Yaeko Kabe,2004-11-18 Coal is more abundant than petroleum and natural gas Further coal is not localized but can be used by many more countries than petroleum Therefore if we can establish coal utilization technology coal will bring about a great contribution to human life and society On the other hand shortage of petroleum and natural gas are anticipated in the second half of the 21st century To compensate the use of coal is expected to gradually increase during the 21st century In the future the development of the coal utilization technology will become more and more important to insure the supply of liquid fuels for transportation and carbon sources for the manufacture of chemicals and plastic materials In order to develop such technologies the elucidation of the structure of coal is a fundamental area of study Further more efficient coal utilization technology must be established to meet environmental legislation One of the key technologies for this purpose is catalysis This volume provides detail of the basic and practical aspects of the science and technology of coal utilization with and without catalysts The actual structure of coal the chemistry included in the reactivity of coal the methods to elucidate the structure of coal and reaction mechanisms of coal conversion the most important catalyst for converting coal to liquid and gas the role of the catalysts in coal conversion the problems in the process engineering and how to meet environmental regulations are discussed in detail The recent progress in studies on the structure and reactivity of coal made over the last

century is summarized and reviewed with emphasis on both fundamental and applied aspects of the science and technology for coal processing in the presence and absence of catalysts This book highlights the issues faced in trying to discover more efficient coal utilization technology Provides detailed discussion on how to meet environmental regulations and legislation Fills the gap between both the scientific and practical sides of coal utilization with and without catalysts *Concepts in Syngas Manufacture* Jens Rostrup-Nielsen, Lars J. Christiansen, 2011 Syngas is a mixture of hydrogen and carbon oxides which can be made from hydrocarbons coal and biomass It is an important intermediate in the chemical industry for manufacture of ammonia methanol and other petrochemicals as well as hydrogen for refineries and fuel cells This book provides a general overview of syngas technologies

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