

Fischer Tropsch Process

1 Reactor Technologies

Slurry 3- ϕ Reactor

- + continuous catalyst removal/exchange
- + excellent temperature distribution and control
- **challenging separation of wax and catalyst**
- **abrasion**

Fixed Bed 2- ϕ Reactor

- + easy separation of liquid products
- **high pressure drop**
- **offline catalyst removal/exchange**
- **considerable temperature gradients**

Fluidized Bed 2- ϕ Reactor

- + virtually isotherm
- + high conversion
- **only for high temperatures to avoid wax agglomeration**
→ only short-chain hydrocarbons
- **abrasion**

2 Operating Conditions

Impact on product distribution

| Operating conditions | | Chain growth probability α | Olefin / Paraffin ratio | Branching | Oxygenates | Methane |
|----------------------|----------------------|-----------------------------------|-------------------------|-----------|------------|---------|
| | GHSV | ↑ | ↑ | | ↑ | ↓ |
| | Temperature | ↓ | | ↑ | | ↑ |
| | Pressure | ↑ | | ↓ | ↑ | ↓ |
| | Inlet H_2/CO ratio | ↓ | ↓ | ↑ | ↓ | ↑ |

3 Catalysts

Iron

- WGS active → variable H_2/CO inlet ratios
- produces rather complex product mix
- wide possible temperature range
→ LTFT and HTFT reasonable

Promoters: Na, K, Cu, MgO, Mn, Zr, Ni

Cobalt

- no WGS activity
- produces mostly paraffins
- excessive methane formation at high temperatures → only LTFT recommended

Promoters: Pt, Ru, Re, Ag, Rh, Zn, K

Supports

Common: Al_2O_3 , SiO_2 , TiO_2

Current Research: SiC, zeolites

Affect: reducibility, mechanical resistance, adsorption properties, electron density on surface, surface area, dispersion

Bi-functionality

Function: modification of the product distribution by an acid-forming material in the reactor

Reactions: hydrocracking, hydroisomerization

Acid donors: zeolites, alumina, silica, carbon

Frontiers And Tasks Of Catalysis Towards The Next Century Proceeding

Brendan Galbraith



Frontiers And Tasks Of Catalysis Towards The Next Century Proceeding:

Frontiers and Tasks of Catalysis Towards the Next Century Sakae Uemura,Takeaki Mitsudo,Masatate Haruta,1998-03

Frontiers and Tasks of Catalysis Towards the Next Century ,1998 Index of Conference Proceedings British Library.

Document Supply Centre,2003 Catalysis J. J. Spivey,1999 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 *New Frontiers in Catalysis, Parts A-C* L. Guczi,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 Engineering—An Endless Frontier Sunny Y. AUYANG,2009-06-30 Genetic engineering nanotechnology astrophysics particle physics We live in an engineered world one where the distinctions between science and engineering technology and research are fast disappearing This book shows how at the dawn of the twenty first century the goals of natural scientists to discover what was not known and that of engineers to create what did not exist are undergoing an unprecedented convergence Sunny Y Auyang ranges widely in demonstrating that engineering today is not only a collaborator with science but its equal In concise accounts of the emergence of industrial laboratories and chemical and electrical engineering and in whirlwind histories of the machine tools and automobile industries and the rise of nuclear energy and information technology her book presents a broad picture of modern engineering its history structure technological achievements and social responsibilities its relation to natural science business administration and public policies Auyang uses case studies such as the development of the F 117A Nighthawk and Boeing 777 aircraft as well as the experiences of engineer scientists such as Oliver Heaviside engineer entrepreneurs such as Henry Ford and Bill Gates and engineer managers such as Alfred Sloan and Jack Welch to give readers a clear sense of engineering s essential role in the future of scientific research Table of Contents Preface 1 Introduction 2 Technology Takes Off 2 1 From Practical Art to Technology 2 2 Construction Becomes Mathematical 2 3 Experimenting with Machines 2 4 Science and Chemical Industries 2

5 Power and Communication 3 Engineering for Information 3 1 From Microelectronics to Nanotechnology 3 2 Computer Hardware and Software 3 3 Wireless Satellites and the Internet 4 Engineering in Society 4 1 Social Ascent and Images of Engineers 4 2 Partnership in Research and Development 4 3 Contributions to Sectors of the Economy 5 Innovation by Design 5 1 Inventive Thinking in Negative Feedback 5 2 Design Processes in Systems Engineering 5 3 Working Together in Aircraft Development 5 4 From Onboard Computers to Door Hinges 6 Sciences of Useful Systems 6 1 Mathematics in Engineering and Science 6 2 Information and Control Theories 6 3 Wind Tunnels and Internet Simulation 6 4 Integrative Materials Engineering 6 5 Biological Engineering Frontiers 7 Leaders Who Are Engineers 7 1 Business Leaders in the Car Industry 7 2 Public Policies and Nuclear Power 7 3 Managing Technological Risks Appendix A Statistical Profiles of Engineers Appendix B U S Research and Development Notes Index I am impressed by the scope of Engineering An Endless Frontier and fascinated by Sunny Auyang s comprehensive knowledge of the subject This is just the kind of book the National Academy of Engineering has been encouraging to promote the importance of engineering to the public It will have a long shelf life in that it pulls together material that is not readily accessible and will serve as a reference for anyone interested in engineering as a profession Engineering needs this book John Hutchinson Harvard University Engineering An Endless Frontier is extraordinary in scope Sunny Auyang describes the different kinds of contemporary engineering practices and productions attempts to provide historical background explains the scientific basis for engineering innovation in different fields and addresses the broad systems level managerial entrepreneurial and design activities of professionals It s rare to find a single author who can grasp and explain the essential features of modern technologies across such an array of industrial sectors and engineering disciplines and explain how they work why they work they way they do and what is required for their innovation development and yes even maintenance Louis L Bucciarelli Professor Emeritus of Engineering and Technology Studies MIT

Looking To The 21st Century: Proceedings Of The 1st International Conference On Frontiers Of Physics Ling Fong Li,Kok Khoo Phua,Samuel S M Wong,Bing Lin Young,1997-08-12 This volume is the record of the first meeting of Chinese physicists from Mainland China Taiwan Hong Kong as well as the rest of the world The participants included all four Nobel laureates of Chinese origin the Presidents of Academia on both shores of the Taiwan Straits academicians OCPA and APS prize recipients and leading researchers in many areas of physics Included in the volume are the plenary talks of T D Lee C N Yang reports from all four major research facilities as well as most of the invited papers and abstracts from the poster sessions

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Więckowski, Kingo Itaya, 1996 *Beyond the Molecular Frontier* National Research Council, Division on Earth and Life Studies, Board on Chemical Sciences and Technology, Committee on Challenges for the Chemical Sciences in the 21st Century, 2003-04-19 Chemistry and chemical engineering have changed significantly in the last decade They have broadened their scope into biology nanotechnology materials science computation and advanced methods of process systems engineering and control so much that the programs in most chemistry and chemical engineering departments now barely resemble the classical notion of chemistry Beyond the Molecular Frontier brings together research discovery and invention across the entire spectrum of the chemical sciences from fundamental molecular level chemistry to large scale chemical processing technology This reflects the way the field has evolved the synergy at universities between research and education in chemistry and chemical engineering and the way chemists and chemical engineers work together in industry The astonishing developments in science and engineering during the 20th century have made it possible to dream of new goals that might previously have been considered unthinkable This book identifies the key opportunities and challenges for the chemical sciences from basic research to societal needs and from terrorism defense to environmental protection and it looks at the ways in which chemists and chemical engineers can work together to contribute to an improved future Brinkman's Cumulatieve catalogus van boeken de in Nederland en vlaanderen zijn uitgegeven of herdrukke, 1998 **Boekblad**, 1998-04

Directory of Published Proceedings, 1992 **Science and Technology Capacity in the Framework of Millennium Development Goals**, 2006 Proceedings of the Global Seminar on the Role of Scientific & Engineering Societies in Development, New Delhi, December 1-5, 1980, 1982 *Sustainable Development - The Roles Of Carbon And Bio-carbon: An Introduction To Molecular Sciences* Pierre Vogel, 2022-06-21 Due to overconsumption of fossil carbon humanity faces four major problems global warming decrease of biodiversity pollution of the biosphere and the degradation of agriculture soils It is not enough to reduce our greenhouse gas emissions by stopping the consumption of fossil carbon it is also urgent to remove carbon dioxide from the atmosphere In order to understand the challenges outlined above a minimal knowledge of the most important carbon compounds and their transformations is an asset This textbook is therefore an introduction to the molecular sciences and shows how we depend on carbon compounds what they are and how they are transformed Plant biomass including agricultural forestry and urban wastes is the source of bio carbon that can replace fossil carbon In addition we will always need carbon containing substances for our comfort and health These important topics are covered in this textbook Life begins with water carbon dioxide and the sun Carbon dioxide is not a waste but a starting material for a better life Biomass and carbon dioxide are our best allies in sustainable development circular economy This textbook explains why This book contains 100 problems and solutions more than 180 colour pages and bibliographical sketches of most important scientists and inventors **Proceedings [of The] Meeting of the Board of Governors** Inter-American Development Bank. Board of Governors. Meeting, 1970 **Congressional Record** United States.

Congress, 1942

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