



# Heavy Oil Gasification

**Gao Jinsheng**



## **Heavy Oil Gasification:**

Heavy Oil Gasification Arnold H. Pelofsky, 1977      New Sources of Oil and Gas S. S. Penner, S B Alpert, V Bendanillo, 2013-10-22 New Sources of Oil Gas Gases from Coal Liquid Fuels from Coal Shale Tar Sands and Heavy Oil Sources is a collection of papers that covers various concerns in exploiting alternative sources of oil and gas The book first covers the essential features of developing coal gasification and coal liquefaction technologies and then proceeds to discussing the results of a detailed evaluation of technologies for shale oil recovery The last article discusses the assessment of research areas that affect the prospects for oil recovery from oil sources and tar sands The book will be of great use to researchers and practitioners of disciplines involved in the fuel industry      **Heavy Oil Recovery and Upgrading** James G. Speight, 2019-03-05 Heavy Oil Recovery and Upgrading covers properties factors methods and all current and upcoming processes giving engineers new and experienced the full spectrum of recovery choices including SAGD horizontal well technology and hybrid approaches Moving on to the upgrading and refining of the product the book also includes information on in situ upgrading refining options and hydrogen production Rounding out with environmental effects management methods on refinery waste and the possible future configurations within the refinery this book provides engineers with a single source to make decisions and manage the full range of challenges      **Heavy Oil Gasification** Pelofsky AH Ed, 1977 *Coal, Oil Shale, Natural Bitumen, Heavy Oil and Peat - Volume I* Gao Jinsheng, 2009-04-29 *Coal Oil Shale Natural Bitumen Heavy Oil and Peat* is a component of Encyclopedia of Energy Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Coal Oil Shale Natural Bitumen Heavy Oil and Peat with contributions from distinguished experts in the field discusses matters of great relevance to our world such as Coal Oil Shale Natural Bitumen Heavy Oil and Peat Coal Geology and Geochemistry Coal Technology Oil Shale Natural Bitumen Tar Sands and Heavy Oil Peat and Peatland These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs      *Modeling of Processes and Reactors for Upgrading of Heavy Petroleum* Jorge Ancheyta, 2013-01-29 The worldwide petroleum industry is facing a dilemma the production level of heavy petroleum is higher than that of light petroleum Heavy crude oils possess high amounts of impurities sulfur nitrogen metals and asphaltenes as well as a high yield of residue with consequent low production of valuable distillates gasoline and diesel These characteristics in turn are responsible for the low price of heavy petroleum Additionally existing refineries are designed to process light crude oil and heavy oil cannot be refined to 100 percent One solution to this problem is the installation of plants for heavy oil upgrading before sending this raw material to a refinery *Modeling of Processes and Reactors for Upgrading of Heavy Petroleum* gives an up to date treatment of modeling of reactors employed in the main processes for heavy petroleum upgrading The book includes fundamental aspects such as

thermodynamics reaction kinetics chemistry and process variables Process schemes for each process are discussed in detail The author thoroughly describes the development of correlations reactor models and kinetic models with the aid of experimental data collected from different reaction scales The validation of modeling results is performed by comparison with experimental and commercial data taken from the literature or generated in various laboratory scale reactors Organized into three sections this book deals with general aspects of properties and upgrading of heavy oils describes the modeling of non catalytic processes as well as the modeling of catalytic processes Each chapter provides detailed experimental data explanations of how to determine model parameters and comparisons with reactor model predictions for different situations so that readers can adapt their own computer programs The book includes rigorous treatment of the different topics as well as the step by step description of model formulation and application It is not only an indispensable reference for professionals working in the development of reactor models for the petroleum industry but also a textbook for full courses in chemical reaction engineering The author would like to express his sincere appreciation to the Marcos Moshinsky Foundation for the financial support provided by means of a Ctedra de Investigaci n Heavy Oil--a Major Energy Source for the 21st Century ,1998 Ullmann's Energy Wiley-VCH,2015-06-02 Mit einer Sammlung der wichtigsten Artikel aus ULLMANN s Encyclopedia of Industrial Chemistry bietet dieses dreib ndige Handbuch unz hlige Informationen zu Energieressourcen und Technologien Dabei werden erneuerbare und auch fossile Energietr ger gleicherma en behandelt

**Gasification** Christopher Higman, Maarten van der Burgt, 2011-08-30 Gasification is a process that if properly utilized can transform the world in which we live Comprehensive in its coverage this second edition continues the tradition of the first by providing engineers and scientists with an up to date overview of commercial processes and applications relevant to today s demands Gasification 2nd edition is expanded and provides more detail on the integration issues for current generation state of the art Integrated Gasification Combined Cycles IGCC CO<sub>2</sub> capture in the IGCC context addressing the issues of pre investment and retrofitting as well as defining what the term CO<sub>2</sub> capture ready might mean in practice issues of plant reliability availability and maintainability RAM including an evaluation of feedback from existing plants implementation of fuel cell technology in IGCC concepts All statistics processes and projects including descriptions of a number of processes not covered in the previous edition Up to date overview of commercial processes Covers applications relevant to today s demands Addresses the issues of pre investment and retrofitting Provides more detail on the integration issues for Integrated Gasification *Polygeneration with Polystorage* Kaveh Rajab Khalilpour, 2018-11-27 Polygeneration with Polystorage For Energy and Chemicals addresses the problem of both traditional and dispersed generation with a broad multidisciplinary perspective As the first book to thoroughly focus on the topic of polygeneration users will find the problem presented from different scientific and technical domains down to both macro and micro levels Detailed analyses and state of the art developments in specific fields are included focusing on storage in conventional energy supply chains and demand

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**Hydrogen Science and Engineering** Detlef Stolten, Bernd Emonts, 2016-01-04 Authored by 50 top academic government and industry researchers this handbook explores mature evolving technologies for a clean economically viable alternative to non renewable energy In so doing it also discusses such broader topics as the environmental impact education safety and regulatory developments The text is all encompassing covering a wide range that includes hydrogen as an energy carrier hydrogen for storage of renewable energy and incorporating hydrogen technologies into existing technologies

**Environmental considerations of selected energy conserving manufacturing process options** United States. Environmental Protection Agency. Office of Research and Development, 1976

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