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*Siddhartha Mukherjee Wilbur Lundine NELSON Eugene Franz Roeber United States Grain Corporation! Barnett Fred Dodge Ernest J. Henley*

this is the first part of a two volume work which comes at a time when oil producers are taking a close look at the economy of oilfield operation and redesign of production technology to improve ultimate recovery the very high cost and risk of the search for new oilfields demands the re evaluation of production technology and reservoir engineering to improve the production characteristics of existing oilfields it is the aim of this work that it will be instrumental in the improvement of the global enhancement of oil production and ultimate recovery it is the outcome of extensive collaboration between experts in petroleum who have devoted their time to the lucid expression of the knowledge that they have acquired through experience in the evaluation and solution of field problems and development of economic field processes oil production companies have been generous in their cooperation through assistance and encouragement to the authors and permission to publish data designs and photographs together the two books provide a detailed and comprehensive coverage of the subject the physical and chemical properties of the fluids encountered by engineers in the field are clearly described the properties methods of separation measurement and transportation of these fluids gases condensate liquids derived from natural gas crude oils and oilfield waters are dealt with following a presentation of the fluids and their process technology a series of chapters give a thorough discussion of every type of surface equipment that is encountered in the myriad aspects of oilfield operations ranging from waterflooding to new enhanced oil recovery techniques included are all methods for pumping water control production logging and corrosion control the coverage also extends to well completion and work over operations methods for design and operation of underground gas storage and a review of offshore technology surface operations in petroleum production is therefore a comprehensive reference which will be invaluable for field production managers and engineers as well as being an ideal text on production technology to complement the study of reservoir engineering

supported by numerous illustrations and references this book describes the chemistry and physics that occur during the refinery operations and how the properties of petroleum can be translated into predictability in refinery scenarios the chapters

discuss such topics as the composition of petroleum petroleum analysis and evaluation metals and heteroatoms in petroleum asphaltenes and the structure of petroleum thermal chemistry of petroleum constituents heavy oil upgrading processes hydrocracking reactions catalysts and processes and instability and incompatibility of petroleum products

safety in the process industries is critical for those who work with chemicals and hazardous substances or processes the field of loss prevention is and continues to be of supreme importance to countless companies municipalities and governments around the world and lees is a detailed reference to defending against hazards recognized as the standard work for chemical and process engineering safety professionals it provides the most complete collection of information on the theory practice design elements equipment regulations and laws covering the field of process safety an entire library of alternative books and cross referencing systems would be needed to replace or improve upon it but everything of importance to safety professionals engineers and managers can be found in this all encompassing three volume reference instead the process safety encyclopedia trusted worldwide for over 30 years now available in print and online to aid searchability and portability over 3 600 print pages cover the full scope of process safety and loss prevention compiling theory practice standards legislation case studies and lessons learned in one resource as opposed to multiple sources

the book provides the whole horizon of process engineering and plant design from concept phase through the execution to commissioning of the plant in the real practice providing a complete industrial perspective the book covers the guidelines and standards followed in the industry and how engineering documents are generated using these standards describes hazardous area classification relief system design revamp engineering interaction with other disciplines and pre commissioning and commissioning contains several illustrated practical examples which clarify the fundamentals to a raw chemical engineer includes description of a complete chemical project from concept to commissioning treating the topic from the perspective of an industrial employee with extensive experience in process engineering and plant design it aims to aid chemical and plant engineers to deal with decision making processes on strategic level management tasks and leading functions beside the technical know how

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