

Mechanics of Hydraulic Fracturing

Experiment, Model, and Monitoring

Edited by Xi Zhang • Bisheng Wu
Diansen Yang • Andrew Bungler



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Mechanics Of Hydraulic Fracturing

Didier Musso



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Mechanics of Hydraulic Fracturing Xi Zhang, Bisheng Wu, Diansen Yang, Andrew Bunger, 2022-12-15 Mechanics of Hydraulic Fracturing Comprehensive single volume reference work providing an overview of experimental results and predictive methods for hydraulic fracture growth in rocks Mechanics of Hydraulic Fracturing Experiment Model and Monitoring provides a summary of the research in mechanics of hydraulic fractures during the past two decades plus new research trends to look for in the future The book covers the contributions from theory modeling and experimentation including the application of models to reservoir stimulation mining preconditioning and the formation of geological structures The four expert editors emphasize the variety of diverse methods and tools in hydraulic fracturing and help the reader understand hydraulic fracture mechanics in complex geological situations To aid in reader comprehension practical examples of new approaches and methods are presented throughout the book Key topics covered in the book include Prediction of fracture shapes sizes and distributions in sedimentary basins plus their importance in petroleum industry Real time monitoring methods such as micro seismicity and trace tracking How to uncover geometries of fractures like dikes and veins Fracture growth of individual foundations and its applications Researchers and professionals working in the field of fluid driven fracture growth will find immense value in this comprehensive reference on hydraulic fracturing mechanics

Mechanics of Hydraulic Fracturing Ching H. Yew, 1997-03-31 This book examines the underlying mechanics of creating a fracture from vertical or deviated wellbores and the propagation of a hydraulic fracture in the reservoir

Hydraulic Fracture Mechanics Peter Valkó, Michael J. Economides, 1995 The book explores the theoretical background of one of the most widespread activities in hydrocarbon wells that of hydraulic fracturing A comprehensive treatment of the basic phenomena includes linear elasticity stresses fracture geometry and rheology The diverse concepts of mechanics are integrated into a coherent description of hydraulic fracture propagation The chapters in the book are cross referenced throughout and the connections between the various phenomena are emphasized The book offers readers a unique approach to the subject with the use of many numerical examples

Hydraulic Fracturing and Rock Mechanics Yu Zhao, Yongfa Zhang, Pengfei He, 2023-06-21 This open access book is the first to consider the effect of non uniform fluid pressure in hydraulic fractures The book covers the key topics in the process of hydraulic fracture nucleation growth interaction and fracture network formation Laboratory experiments and theoretical modeling are combined to elucidate the formation mechanism of complex fracture networks This book is suitable for master s Ph D students scientists and engineers majoring in rock mechanics and petroleum engineering who need to use a more reliable model to predict fracture behavior

The Fluid Mechanics of Hydraulic Fracturing Craig Warren Gustafson, 1987 **Imaging the Mechanics of Hydraulic Fracturing in Naturally-fractured Reservoirs Using Induced Seismicity and Numerical Modeling** Xueping

Zhao, 2010 **Fracture Mechanics of Rock** Atkinson, 1987-01-28 Fracture Mechanics of Rock **Porous Rock Fracture**

Mechanics Amir Shojaei, Jianfu Shao, 2017-05-05 Porous Rock Failure Mechanics Hydraulic Fracturing Drilling and Structural Engineering focuses on the fracture mechanics of porous rocks and modern simulation techniques for progressive quasi static and dynamic fractures The topics covered in this volume include a wide range of academic and industrial applications including petroleum mining and civil engineering Chapters focus on advanced topics in the field of rock s fracture mechanics and address theoretical concepts experimental characterization numerical simulation techniques and their applications as appropriate Each chapter reflects the current state of the art in terms of the modern use of fracture simulation in industrial and academic sectors Some of the major contributions in this volume include but are not limited to anisotropic elasto plastic deformation mechanisms in fluid saturated porous rocks dynamics of fluids transport in fractured rocks and simulation techniques fracture mechanics and simulation techniques in porous rocks fluid structure interaction in hydraulic driven fractures advanced numerical techniques for simulation of progressive fracture including multiscale modeling and micromechanical approaches for porous rocks and quasi static versus dynamic fractures in porous rocks This book will serve as an important resource for petroleum geomechanics drilling and structural engineers R D managers in industry and academia Includes a strong editorial team and quality experts as chapter authors Presents topics identified for individual chapters are current relevant and interesting Focuses on advanced topics such as fluid coupled fractures rock s continuum damage mechanics and multiscale modeling Provides a one stop advanced level reference for a graduate course focusing on rock s mechanics Foundations of Rock Mechanics in Oil and Gas Engineering Yuanfang Cheng, Chuanliang Yan, Zhongying Han, 2023-05-31 This book introduces the basic theoretical knowledge of rock mechanics and its application in petroleum engineering It covers the gamut of the formulas and calculations for petroleum engineers that have been compiled over decades while others are meant to help guide the engineer through some of the more recent breakthroughs in the industry s technology The topics are introduced at a level that should give a good basic understanding of the subject Basic concepts of stress and strain Experimental method of rock mechanics Rock deformation and strength characteristics Rock strength failure criterion In situ stress state Application method of rock mechanics theory in the field of wellbore stability Application method of rock mechanics theory in the field of sand production Application method of rock mechanics theory in the field of hydraulic fracturing This textbook contains abundant figures illustrations and tables providing valuable examples and exercises Key Features and Benefits for the Reader Helps in understanding the basic concepts of rock mechanics Applies rock mechanics theory and method to various fields of petroleum engineering Includes a large number of calculations tables and equations that are very useful for petroleum engineers Presents new and updated sections in rock mechanics of petroleum engineering **Surface Operations in Petroleum Production, II** J.O. Robertson, G.V. Chilingarian, S. Kumar, 1989-07-01 This second volume of Surface Operations in Petroleum Production complements and amplifies Volume I which appeared in 1987 and covered several aspects of oilfield technology This second volume presents a detailed theoretical

and practical exposition of surface oilfield practices including gas flow rate measurement cementing fracturing acidizing and gravel packing In today s era of specialization these operations are generally left to service companies denying field engineers and company managers direct detailed knowledge of the specific surface and subsurface operations This book presents a comprehensive analysis which may be used by field engineers to analyze technical problems specify the required surface and subsurface operations and closely supervise the service company s work and post treatment operation of the well Another subject which has great economic consequences in all oilfields is corrosion of equipment The book presents a comprehensive analysis of the theory of corrosion in the oilfield and methods that have proved effective for the retardation or elimination of corrosion Quality control of injection waters is then covered Three more topics are addressed the first is offshore technology which is presented with reference to onshore oilfield operations making a lucid presentation for field engineers who have no practical knowledge of the subject The second is pollution control an area of oilfield management which has assumed widespread importance in recent years The last topic covered is the subject of underground storage of gas and oil Underground fuel storage and retrieval is an active area of oilfield production management that utilizes the technology presented in this entire treatise Finally the technology of testing petroleum products and sample experiments for junior and senior petroleum engineering students are presented This two volume comprehensive treatise on modern oilfield technology thus provides not only a complete reference for field managers engineers and technical consultants but will also serve academic needs in advanced studies of petroleum production engineering

Hydraulic Fracturing in Inclined Boreholes Narayanan Harikrishnan,1994 **Hydraulic fracturing and geothermal energy** S. Nemat-Nassar,H. Abé,S. Hirakawa,2012-12-06 Hydraulic fracturing has been and continues to be a major technological tool in oil and gas recovery nuclear and other waste disposal mining and particularly in situ coal gasification and more recently in geothermal heat recovery particularly extracting heat from hot dry rock masses The understanding of the fracture process under the action of pressurized fluid at various temperatures is of fundamental scientific importance which requires an adequate description of thermomechanical properties of subsurface rock fluid solid interaction effects as well as degradation of the host rock due to temperature gradients introduced by heat extraction Considerable progress has been made over the past several years in laboratory experiments analytical and numerical modeling and in situ field studies in various aspects of hydraulic fracturing and geothermal energy extraction by researchers in the United States and Japan and also elsewhere However the results have been scattered throughout the literature Therefore the time seemed ripe for bringing together selected researchers from the two countries as well as observers from other countries in order to survey the state of the art exchange scientific information and establish closer collaboration for further better coordinated scientific effort in this important area of research and exploration **Modelling Rock Fracturing Processes** Baotang Shen,Ove Stephansson,Mikael Rinne,2020-05-06 This book is the second edition of the well known textbook Modelling Rock Fracturing Processes The new

and extended edition provides the theoretical background of rock fracture mechanics used for modelling of 2 D and 3 D geomechanics problems and processes Fundamentals of rock fracture mechanics integrated with experimental studies of rock fracturing processes are highlighted The computer programs FRACOD 2D and 3D are used to analyse fracture initiation and propagation for the three fracture modes Mode I II and III Coupled fracture modelling with other continuous and distinct element codes including FLAC PFC RFPA TOUGH are also described A series of applications of fracture modelling with importance for modern society is presented and discussed by distinguished rock fracture modelling experts

Fracture Mechanics Analysis of the Vaidity of Hydraulic Fracturing as a Technique of In-situ Stress Determination Gideon

Leonard,1985

The Mechanics of Fluid-Driven Fractures: Theory and Applications Emmanuel Detournay,Jose I.

Adachi,Dmitry I. Garagash,2015-05-04 Answers to basic questions have remained elusive despite the publications that this subject has attracted How is a fracture evolving in shape and size How is the fracturing pressure varying with time What is the process dependence on the properties of the soils or rock on the in situ stresses on the properties of both the fracturing fluid and the pore fluid and on the boundary conditions In particular Hydraulic Fracture Mechanics by Valko and Economides was a good treatment of the applied mechanics of the subject at the time it was written 1995 but much of the material has been developed since then in a more theoretical way The proposed book is based on recent efforts by the authors to derive accurate solutions for fluid driven fractures Key Features of the book include Focuses on the fundamentals of fluid driven fractures Fluid driven fracturing is an essential technique in the petroleum industry Brings new answers to a difficult problem

Analytical Methods in Petroleum Upstream Applications Cesar Ovalles,Carl E. Rechsteiner Jr.,2015-04-02 Effective measurement of the composition and properties of petroleum is essential for its exploration production and refining however new technologies and methodologies are not adequately documented in much of the current literature Analytical Methods in Petroleum Upstream Applications explores advances in the analytical methods and instrumentation that allow more accurate determination of the components classes of compounds properties and features of petroleum and its fractions Recognized experts explore a host of topics including A petroleum molecular composition continuity model as a context for other analytical measurements A modern modular sampling system for use in the lab or the process area to collect and control samples for subsequent analysis The importance of oil in water measurements and monitoring The chemical and physical properties of heavy oils their fractions and products from their upgrading Analytical measurements using gas chromatography and nuclear magnetic resonance NMR applications Asphaltene and heavy ends analysis Chemometrics and modeling approaches for understanding petroleum composition and properties to improve upstream midstream and downstream operations Due to the renaissance of gas and oil production in North America interest has grown in analytical methods for a wide range of applications The understanding provided in this text is designed to help chemists geologists and chemical and petroleum engineers make more accurate estimates of the crude value to specific refinery configurations

providing insight into optimum development and extraction schemes

Hydraulic Fracturing: a Fracture Mechanics

Approach J. D. McLennan, 1980

Fossil Energy Update, 1978

The technological process on Offshore Drilling

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Fracture Mechanics Applied to Hydraulic Fracturing in

Laboratory Experiments Ferdinand Stöckhert, 2015

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