

## LECTURE NOTES

Jon Steinar Gudmundsson  
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### INTRODUCTION (Petroleum Production Engineering)

- Flow and pressure in near wellbore formation
- Flow and pressure in well/tubing
- Wellhead and template conditions
- Flowline, from template to platform or terminal
- Processing subsea, platform or terminal

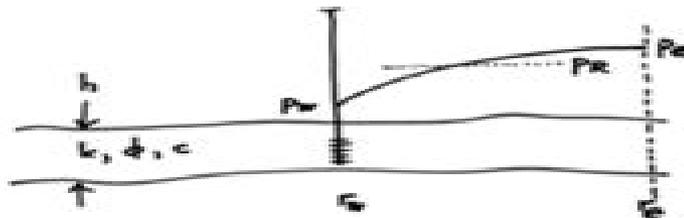
### PRODUCTION WELLS

#### Deliverability

- Analyze and then synthesize
- Rate and pressure main parameters
- Reservoir performance
- Inflow performance
- Outflow performance, tubing performance

#### Pressure Profile and Pressure States in Reservoirs

- Pressure profile from  $r_w$  to  $r_e$ , from well radius to outer boundary



$k$  = permeability

$\phi$  = porosity

$c$  = compressibility

$h$  = reservoir thickness

$r_w$  = well radius

$r_e$  = reservoir radius (radial system)  $e$  = exterior

$p_w$  =  $p_{wf}$  well flowing pressure

$p_e$  = pressure at reservoir outer boundary

$p_r$  = reservoir pressure (volume average)

- Steady-state (stasjonært tilstand), SS
- Pseudosteady-state (pseudostasjonært tilstand), PSS

# Petroleum Engineering Lecture Notes

**Jon Gudmundsson**



## **Petroleum Engineering Lecture Notes:**

*Class Notes, Natural Gas Engineering* University of Oklahoma. School of Petroleum Engineering, John Morgan Campbell (Sr.), 1958\*     **Lecture Notes for Fundamentals of Reservoir Engineering. Part II** Ben Hall Caudle, 1968     Lecture notes for fundamentals of reservoir engineering Ben Hall Caudle, 1968     **Lecture Notes for Fundamentals of Reservoir Engineering** Ben Hall Caudle, 1968     *Principles of Petroleum Reservoir Engineering* Gian L. Chierici, 2013-03-09 Six years ago at the end of my professional career in the oil industry I left my management position within Agip S p A a major multinational oil company whose headquarters are in Italy to take up the chair in reservoir engineering at the University of Bologna Italy There I decided to prepare what was initially intended to be a set of lecture notes for the students attending the course However while preparing these notes I became so absorbed in the subject matter that I soon found myself creating a substantial volume of text which could not only serve as a university course material but also as a reference for wider professional applications Thanks to the interest shown by the then president of Agip Ing Giuseppe Muscarella this did indeed culminate in the publication of the first Italian edition of this book in 1989 The translation into English and publication of these volumes owes much to the encouragement of the current president of Agip Ing Guglielmo Moscato My grateful thanks are due to both gentlemen And now the English version translated from the second Italian edition and containing a number of revisions and much additional material As well as providing a solid theoretical basis for the various topics this work draws extensively on my 36 years of worldwide experience in the development and exploitation of oil and gas fields     **Reservoir Engineering** Sylvester Okotie, Bibobra Ikporo, 2018-11-22 This book provides a clear and basic understanding of the concept of reservoir engineering to professionals and students in the oil and gas industry The content contains detailed explanations of key theoretic and mathematical concepts and provides readers with the logical ability to approach the various challenges encountered in daily reservoir field operations for effective reservoir management Chapters are fully illustrated and contain numerous calculations involving the estimation of hydrocarbon volume in place current and abandonment reserves aquifer models and properties for a particular reservoir field the type of energy in the system and evaluation of the strength of the aquifer if present The book is written in oil field units with detailed solved examples and exercises to enhance practical application It is useful as a professional reference and for students who are taking applied and advanced reservoir engineering courses in reservoir simulation enhanced oil recovery and well test analysis     *Lecture Notes for Fundamentals of Reservoir Engineering* Ben H. Caudle, 1900     *Flow Assurance Solids in Oil and Gas Production* Jon Gudmundsson, 2017-09-13 The precipitation and deposition of solids are a major challenge in the production of oil and gas Flow assurance solids are formed because of unavoidable changes in temperature pressure and composition of the oil gas water flowstream from reservoir conditions to processing conditions The advent of subsea production and the increased exploitation of heavy crudes have made flow assurance issues dominant in ensuring efficient and safe exploitation of

hydrocarbon assets Five troublesome flow assurance solids are described in the book asphaltene paraffin wax natural gas hydrate naphthenate and inorganic scale These big five solids are presented in stand alone chapters Each chapter is designed to be readable without clutter Derivations of equations and descriptions of supporting details are given in several appendices The book is intended for professional engineers and natural scientist working in E P companies engineering companies service companies and specialized companies An understanding of the big five solids is required throughout the lifetime of oil and gas assets from early development to abandonment The technical safety and environmental risks associated with deposition problems in near wellbore formations production tubing wellhead equipment flowlines and processing facilities are relevant for decisions in the oil and gas industry and in outside regulatory and financial entities

**Chemo-Mechanical Couplings in Porous Media Geomechanics and Biomechanics** Benjamin Loret, Jacques M. Huyghe, 2004-06-16 The book addresses fundamental issues faced by experimentalists modelers and engineers interested in different physical mechanical and transport aspects of biological tissues and chemically active geological materials mainly clays and shales The focus is on the couplings between electro chemical and mechanical aspects involved in swelling and chemical consolidation Emphasis is laid on the influence of these phenomena on mechanical properties and on transport properties Applications in geo environmental and geotechnical technologies including nuclear and hazardous waste isolation oil recovery engineering geology are addressed directly or implied Control of long term effects of surgery and mechanical performance of prostheses may benefit from the modeling of irreversibilities that are of utmost importance in geological materials Conversely understanding the self regulation mechanisms of biological tissues may be helpful in the design of efficient engineering materials *Report Texas. Agricultural and mechanical college, College Station, 1923* **Bulletin**, 1924 *Chemical Enhanced Oil Recovery* Patrizio Raffa, Pablo Druetta, 2019-07-22 This book aims at presenting describing and summarizing the latest advances in polymer flooding regarding the chemical synthesis of the EOR agents and the numerical simulation of compositional models in porous media including a description of the possible applications of nanotechnology acting as a booster of traditional chemical EOR processes A large part of the world economy depends nowadays on non renewable energy sources most of them of fossil origin Though the search for and the development of newer greener and more sustainable sources have been going on for the last decades humanity is still fossil fuel dependent Primary and secondary oil recovery techniques merely produce up to a half of the Original Oil In Place Enhanced Oil Recovery EOR processes are aimed at further increasing this value Among these chemical EOR techniques including polymer flooding present a great potential in low and medium viscosity oilfields Describes recent advances in chemical enhanced oil recovery Contains detailed description of polymer flooding and nanotechnology as promising boosting tools for EOR Includes both experimental and theoretical studies About the Authors Patrizio Raffa is Assistant Professor at the University of Groningen He focuses on design and synthesis of new polymeric materials optimized for industrial applications such as EOR



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