

## LECTURE NOTES

Jon Steinar Gudmundsson  
November 2008

### 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

$p_w$  = 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 Production Engineering Lecture Notes

**Lingjun Ying**



## **Petroleum Production Engineering Lecture Notes:**

Advances in Manufacturing Engineering Mithilesh K. Dikshit, Navneet Khanna, Ashish Soni, Angelos P.

Markopoulos, 2024-07-30 This book presents the select proceedings of 2nd International Conference on Futuristic Advancements in Materials Manufacturing and Thermal Sciences ICFAMMT 2024 It covers the latest research in manufacturing sciences and technology including metal cutting metal forming casting joining micromachining nonconventional machining and additive manufacturing The book also covers topics such as industry 4.0 digital manufacturing and the use of artificial intelligence and machine learning in the manufacturing industry cryogenic machining dry and near dry machining and additive manufacturing including metal based additive manufacturing polymer based additive manufacturing and hybrid additive manufacturing The book is useful for researchers and professionals working in the field of manufacturing sciences

**Essentials of Offshore Structures** D.V. Reddy, A. S. J. Swamidas, 2016-04-19  
Essentials of Offshore Structures Framed and Gravity Platforms examines the engineering ideas and offshore drilling platforms for exploration and production This book offers a clear and acceptable demonstration of both the theory and application of the relevant procedures of structural fluid and geotechnical mechanics to offshore structures It

**Multiphase Transport of Hydrocarbons in Pipes** Juan J. Manzano-Ruiz, Jose G. Carballo, 2024-03-26  
Multiphase Transport of Hydrocarbons in Pipes An introduction to multiphase flows in the oil and gas industry The term multiphase flow refers to the concurrent flow of oil and or gas alongside other substances or materials such as production water chemical inhibitors and solids e.g. sand This is a critical topic in the oil and gas industry where the presence of multiple flow phases in pipelines affects deliverability generates serious complications in predicting flow performance for system design and operation and requires specific risk mitigation actions and continuous maintenance Chemical and Mechanical Engineers interested in working in this industry will benefit from understanding the basic theories and practices required to model and operate multiphase flows through pipelines wells and other components of the production system Multiphase Transport of Hydrocarbons in Pipes meets this need with a comprehensive overview of five decades of research into multiphase flow Incorporating fundamental theories historic and cutting edge multiphase flow models and concrete examples of current and future applications This book provides a sound technical background for prospective or working engineers in need of understanding this crucial area of industry Readers will also find Fundamental principles supporting commercial software Detailed tools for estimating multiphase flow rates through flowlines wells and more Integration of conservation principles with thermodynamic and transport properties Coverage of legacy and modern simulation models This book is ideal for flow assurance engineers facilities engineers oil and gas production engineers and process engineers as well as chemical and mechanical engineering students looking to work in any of these roles

**Machinery and Production Engineering**, 1917

**Bulletin** University of California (System). University Extension, 1923

**Sea Grant Publications Index, 1968-72**

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    **Transactions of the American Institute of Mining and Metallurgical Engineers** ,1928    *Bulletin of the American Association of Petroleum Geologists* ,1946    **Petroleum Review** ,1910    *Petroleum Times* ,1923

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