

## LECTURE NOTES

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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

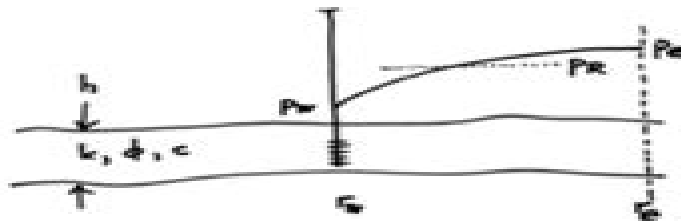
### PRODUCTION WELLS

#### 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 Production Engineering Lecture Notes

**Marcel A. Müller**



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