
Applied Petroleum Reservoir Engineering

3rd Edition Solution Manual

CHAPTER 2

2.1 using Equation 2.4: $pV = nRT$

$$(a) \ V = \frac{1(10.73)(60 + 460)}{14.7} = 379.6 \text{ SCF}$$

$$(b) \ V = \frac{1(10.73)(32 + 460)}{14.7} = 359.1 \text{ SCF}$$

$$(c) \ V = \frac{1(10.73)(80 + 460)}{14.7 + 10/16} = 378.1 \text{ SCF}$$

$$(d) \ V = \frac{1(10.73)(60 + 460)}{15.025} = 371.4 \text{ SCF}$$

2.2 (a) number of moles of methane = $10/16 = .625$ moles

number of moles of ethane = $20/30 = .667$ moles

total number of moles = $.625 + .667 = 1.292$ moles

(b) from Equation 2.4

$$p = \frac{1.292(10.73)(550)}{500} = 15.25 \text{ psia}$$

Petroleum Engineering Solution Manual

Michael R. Lindeburg



Petroleum Engineering Solution Manual:

Solutions Manual for the Chemical Engineering Reference Manual Randall N. Robinson, 1988 Step by step solutions to all the practice problems in the Reference Manual **Solutions Manual for the Mechanical Engineering Reference Manual** Michael R. Lindeburg, 1990 **Solutions Manual for the Engineer-in-training Reference Manual** Michael R. Lindeburg, 1990 **Chemical Engineering Thermodynamics** AHUJA, PRADEEP, 2008-12 This book offers a full account of thermodynamic systems in chemical engineering It provides a solid understanding of the basic concepts of the laws of thermodynamics as well as their applications with a thorough discussion of phase and chemical reaction equilibria At the outset the text explains the various key terms of thermodynamics with suitable examples and then thoroughly deals with the virial and cubic equations of state by showing the P V T pressure molar volume and temperature relation of fluids It elaborates on the first and second laws of thermodynamics and their applications with the help of numerous engineering examples The text further discusses the concepts of exergy standard property changes of chemical reactions thermodynamic property relations and fugacity The book also includes detailed discussions on residual and excess properties of mixtures various activity coefficient models local composition models and group contribution methods In addition the text focuses on vapour liquid and other phase equilibrium calculations and analyzes chemical reaction equilibria and adiabatic reaction temperature for systems with complete and incomplete conversion of reactants Key Features Includes a large number of fully worked out examples to help students master the concepts discussed Provides well graded problems with answers at the end of each chapter to test and foster students conceptual understanding of the subject The total number of solved examples and end chapter exercises in the book are over 600 Contains chapter summaries that review the major concepts covered The book is primarily designed for the undergraduate students of chemical engineering and its related disciplines such as petroleum engineering and polymer engineering It can also be useful to professionals The Solution Manual containing the complete worked out solutions to chapter end exercises and problems is available for instructors Drilling Engineering Problems and Solutions M. E. Hossain, M. R. Islam, 2018-06-27 Completely up to date and the most thorough and comprehensive reference work and learning tool available for drilling engineering this groundbreaking volume is a must have for anyone who works in drilling in the oil and gas sector Petroleum and natural gas still remain the single biggest resource for energy on earth Even as alternative and renewable sources are developed petroleum and natural gas continue to be by far the most used and if engineered properly the most cost effective and efficient source of energy on the planet Drilling engineering is one of the most important links in the energy chain being after all the science of getting the resources out of the ground for processing Without drilling engineering there would be no gasoline jet fuel and the myriad of other have to have products that people use all over the world every day Following up on their previous books also available from Wiley Scrivener the authors two of the most well respected prolific and progressive drilling engineers in the industry offer this

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