
Applied Petroleum Reservoir Engineering

3rd Edition Solution Manual

CHAPTER 2

2.1 using Equation 2.4: $pV = nRT$

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

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

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

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

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

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

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Julia Schneider



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Proceedings of the International Field Exploration and Development Conference 2024 Jia'en Lin, 2025-07-04 This book compiles selected papers from the 14th International Field Exploration and Development Conference IFEDC 2024. The work focuses on topics including Reservoir Exploration, Reservoir Drilling Completion, Field Geophysics, Well Logging, Petroliferous Basin Evaluation, Oil Gas Accumulation, Fine Reservoir Description, Complex Reservoir Dynamics and Analysis, Low Permeability Tight Oil Gas Reservoirs, Shale Oil Gas Fracture, Vuggy Reservoirs, Enhanced Oil Recovery in Mature Oil Fields, Enhanced Oil Recovery for Heavy Oil Reservoirs, Big Data and Artificial Intelligence, Formation Mechanisms and Prediction of Deep Carbonate Reservoirs and other Unconventional Resources. The conference serves as a platform not only for exchanging experiences but also for advancing scientific research in oil gas exploration and production. The primary audience for this work includes reservoir engineers, geological engineers, senior engineers, enterprise managers and students.

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Table of Contents Solution Manual For Reservoir Engineering H

1. Understanding the eBook Solution Manual For Reservoir Engineering H
 - The Rise of Digital Reading Solution Manual For Reservoir Engineering H
 - Advantages of eBooks Over Traditional Books
2. Identifying Solution Manual For Reservoir Engineering H
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Solution Manual For Reservoir Engineering H
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solution Manual For Reservoir Engineering H
 - Personalized Recommendations
 - Solution Manual For Reservoir Engineering H User Reviews and Ratings
 - Solution Manual For Reservoir Engineering H and Bestseller Lists
5. Accessing Solution Manual For Reservoir Engineering H Free and Paid eBooks

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- 7. Enhancing Your Reading Experience
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 - Highlighting and Note-Taking Solution Manual For Reservoir Engineering H
 - Interactive Elements Solution Manual For Reservoir Engineering H
- 8. Staying Engaged with Solution Manual For Reservoir Engineering H
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solution Manual For Reservoir Engineering H
- 9. Balancing eBooks and Physical Books Solution Manual For Reservoir Engineering H
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solution Manual For Reservoir Engineering H
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Solution Manual For Reservoir Engineering H
 - Setting Reading Goals Solution Manual For Reservoir Engineering H
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Solution Manual For Reservoir Engineering H
 - Fact-Checking eBook Content of Solution Manual For Reservoir Engineering H
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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