

## CONTENTS

### CHAPTER

1. Introduction to the Natural Gas Industry	1
2. Properties of Reservoir Rock	33
3. Phase Behavior of Natural Gas Systems	69
4. Properties of Natural Gases and volatile Hydrocarbon Liquids	94
5. Water-Hydrocarbon Systems	189
6. Measurement and Computation of Vapor Liquid Equilibria for Complex Mixtures	22
7. Flow and Compression Calculations	298
8. Gas-flow Measurements	332
9. Drilling and Testing of Natural Gas Wells	352
10. Steady-and Unsteady-state Flow in Reservoirs	403
11. Development and Operation of Gas fields	435
12. Gas from Condensate and Oil Fields	465
13. Field-separation and Oil-absorption Processes	503
14. Fractional Distillation	534
15. Low-temperature Processing	570
16. The Dehydration and Sweetening of Natural Gas	597
17. Transmission to Market	625
18. Underground Storage of Natural Gas	655
19. Conservation and Governmental Regulation	696
Appendix	707
References	767
Index	795