



Membrane Separations Technology: Single-Stage, Multistage, and Differential Permeation

By *E.J. Hoffman*

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The petroleum, natural gas, and the chemical & petrochemical process industries, variously require the separation of mixtures -- whether of raw feedstream materials, reactants, intermediates, or products -- as comprising gases, liquids, or solutions. Membrane separations add another weapon to the arsenal of separation methods, including the upgrading of subquality natural gas reserves. This book furnishes the necessary derivations and calculations for numerically predicting the separations that can be obtained, based on the known respective membrane permeabilities of the pure components. A versatile text, **Membrane Separations Technology** is suitable both as a reference and a textbook for the practicing process engineer, the researcher, and chemical & petrochemical engineering faculty and students.

- Has cutting-edge scientific methods for liquifying and transporting natural gas
- Written for the engineer in the field, for easy access to important information
- Also contains problems and solutions for the student and professor in chemical engineering departments

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About the Author

The author is retired, but he has had a remarkable career and has written numerous texts on many varied subjects: Unsteady-State Fluid Flow, Elsevier Science, 1999 Heat Transfer Rate Analysis, PennWell, 1978 Analytic Thermodynamics: Origins, Methods, Limits, and Validity, Taylor and Francis, 1991 Cancer and the Search for Selective Biochemical Inhibitors, CRC Press, 1991, distributed by Springer-Verlag. He has worked for the US Navy, a number of oil companies, including Phillips Petroleum and Carter Oil Company. He has taught for the University of Wyoming and Oklahoma State University. He has, on the strength of much of the revolutionary methodology found in this book and certain products developed from it, worked as a consultant and created his own company which he still owns. He holds a BS from Oklahoma State, a masters from the University of Michigan,

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