



# Vacuum Engineering Calculations, Formulas, and Solved Exercises

*Armand Berman*

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# Vacuum Engineering Calculations, Formulas, and Solved Exercises

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## **Vacuum Engineering Calculations, Formulas, and Solved Exercises** Armand Berman

This book was written with two main objectives in mind—to summarize and organize the vast material of vacuum technology in sets of useful formulas, and to provide a collection of worked out exercises showing how to use these formulas for solving technological problems. It is an ideal reference source for those with little time to devote to a full mathematical treatment of the many problems issued in vacuum practice, but who have a working knowledge of the essentials of vacuum technology, elementary physics, and mathematics. This time saving book employs a problem-solving approach throughout, providing the methodology for computing vacuum parameters. References and solved exercises are appended to the end of each chapter.

### Key Features

- \* Presents the thermal transpiration effect in vacuum gauges with application to capacitance manometers in vacuum metrology
- \* Covers analytical-statistical calculation of conductances of vacuum elements
- \* Examines the molecular flow of gas through short pipes and channels
- \* Explains choked and nonchoked laminar flow of gas through vacuum elements

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