

The book was found

# Foundations Of Vacuum Science And Technology



## Synopsis

An indispensable resource for scientists and engineers concerned with high vacuum technology. Vacuum technology has evolved significantly over the past thirty years and is now indispensable to various fields of scientific research as well as the medical technology, food processing, aerospace, and electronics industries. *Foundations of Vacuum Science and Technology* offers a comprehensive survey of the physical and chemical principles underlying the production, measurement, and use of high vacuums. It also provides a valuable critical survey of important developments that have occurred in the field over the past several decades. Comprising contributions from many of the world's leading specialists in vacuum techniques, *Foundations of Vacuum Science and Technology*:

- \* Reviews the laws of kinetics, the principles of gas flow over a wide range of pressures, and the behaviors of both compressible and turbulent flows
- \* Features exhaustive coverage of vacuum pump technology, including liquid ring pumps, dry pumps, turbo pumps, getter pumps, and cryo pumps
- \* Describes leak detectors used in industry
- \* Examines all types of pressure measurement techniques, including the latest quadrupole mass spectrometer techniques for partial pressure analysis
- \* Explores the state of the art in calibration and standards.

## Book Information

Paperback: 760 pages

Publisher: Wiley-Interscience; 1 edition (January 30, 1998)

Language: English

ISBN-10: 0471175935

ISBN-13: 978-0471175933

Product Dimensions: 7.2 x 1.6 x 10.4 inches

Shipping Weight: 3.3 pounds (View shipping rates and policies)

Average Customer Review: 4.5 out of 5 stars 2 customer reviews

Best Sellers Rank: #2,417,157 in Books (See Top 100 in Books) #73 in Books > Engineering & Transportation > Engineering > Aerospace > Gas Dynamics #334 in Books > Science & Math > Physics > Applied #837 in Books > Science & Math > Physics > Solid-State Physics

## Customer Reviews

This comprehensive and up-to-date book introduces important developments and new advances in vacuum science and technology. It presents fundamental ideas in physics and chemistry that would be useful to both scientists and engineers dealing with problems associated with the use, production and measurement of high vacuums. Main areas discussed are vacuum pumps, leak detection,

pressure measurements, and calibration and standards.

An indispensable resource for scientists and engineers concerned with high vacuum technology Vacuum technology has evolved significantly over the past thirty years and is now indispensable to various fields of scientific research as well as the medical technology, food processing, aerospace, and electronics industries. Foundations of Vacuum Science and Technology offers a comprehensive survey of the physical and chemical principles underlying the production, measurement, and use of high vacuums. It also provides a valuable critical survey of important developments that have occurred in the field over the past several decades. Comprising contributions from many of the world's leading specialists in vacuum techniques, Foundations of Vacuum Science and Technology: \* Reviews the laws of kinetics, the principles of gas flow over a wide range of pressures, and the behaviors of both compressible and turbulent flows \* Features exhaustive coverage of vacuum pump technology, including liquid ring pumps, dry pumps, turbo pumps, getter pumps, and cryo pumps \* Describes leak detectors used in industry \* Examines all types of pressure measurement techniques, including the latest quadrupole mass spectrometer techniques for partial pressure analysis \* Explores the state of the art in calibration and standards.

I have used this book as an undergraduate and graduate student. This is a great book that takes you from the basics to the more advanced technologies. A must have for a lab.

This is a very useful book for the people who is interested in Vacuum technologies.

[Download to continue reading...](#)

Foundations of Vacuum Science and Technology Vacuum Nanoelectronic Devices: Novel Electron Sources and Applications Industrial Fluid Power, Vol. 1: Basic Text on Hydraulics, Air & Vacuum for Industrial and Mobile Applications ISO 7396-1:2002, Medical gas pipeline systems - Part 1: Pipelines for compressed medical gases and vacuum Fundamentals of Electromagnetism: Vacuum Electrodynamics, Media, and Relativity Advanced Electromagnetism and Vacuum Phy (Contemporary Chemical Physics) The Witch's Vacuum Cleaner and Other Stories The Boy In The Vacuum Tube The Everything Guide To Cooking Sous Vide: Step-by-Step Instructions for Vacuum-Sealed Cooking at Home (Everything: Cooking) Easy Sous Vide Cookbook: 50 Modern Recipes for Vacuum-Sealed Cooking at Home (Perfect Ideas of Low Temperature Precision Cooking) Introduction to Nanoscale Science and Technology (Nanostructure Science and Technology) Science and Technology in the Global Cold War (Transformations: Studies in the

History of Science and Technology) Foresight for Science, Technology and Innovation (Science, Technology and Innovation Studies) Advances in Corrosion Science and Technology: Volume 6 (Advances in Corrosion Science & Technology) Holt Science & Technology: Microorganisms, Fungi, and Plants Course A (Holt Science & Technology [Short Course]) Advances in Nuclear Science and Technology: Volume 22 (Advances in Nuclear Science & Technology) Blockchain: Step By Step Guide To Understanding The Blockchain Revolution And The Technology Behind It (Information Technology, Blockchain For Beginners, Bitcoin, Blockchain Technology) Fintech: Simple and Easy Guide to Financial Technology (Fin Tech, Fintech Bitcoin, financial technology fintech, Fintech Innovation, Fintech Gold, ... technology, equity crowdfunding) (Volume 1) FINTECH: Simple and Easy Guide to Financial Technology (Fin Tech, Fintech Bitcoin, financial technology fintech, Fintech Innovation, Fintech Gold, Financial services technology, equity crowdfunding) Health Care Science Technology: Career Foundations, Student Edition

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)