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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.

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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.

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