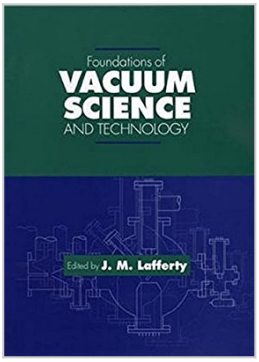

Foundations of Vacuum Science and Technology

From J M Lafferty James M Lafferty

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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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Editorial Review

From the Publisher
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.

From the Back Cover
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About the Author
J. M. LAFFERTY, PhD, is former manager of the Power Electronics Laboratory at the General Electric Research and Development Center in Schenectady, New York. He is the inventor of numerous patented devices, past president of the American Vacuum Society and the International Union for Vacuum Science, Technique and Applications, a member of the National Academy of Engineering, and a fellow of the AAAS, APS, and IEEE.

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