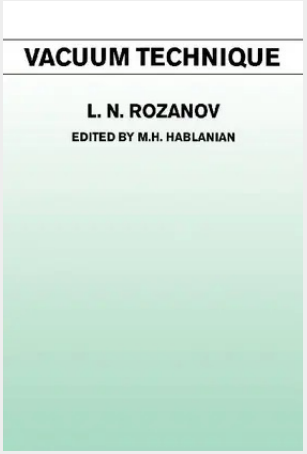
Rozanov

Vacuum Technique



Vacuum technology finds itself in many areas of industry and research. These include materials handling, packaging, gas sampling, filtration, degassing of oils and metals, thin-film coating, electron microscopy, particle acceleration, and impregnation of electrical components. It is vital to design systems that are appropriate to the application, and with so many potential solutions this can become overwhelming. Vacuum Technique provides an overview of vacuum technology, its different design methodologies, and the underlying theory. The author begins with a summary of the properties of low-pressure gases, then moves on to describe mathematical modeling of gas transfer in the vacuum system, the operation of pumps and gauges, computer-aided synthesis and analysis of systems, and the design of different vacuum systems. In particular, the author discusses the structure and characteristics of low, middle, high, and superhigh vacuum systems, as well as the characteristics of joints, materials, movement inputs, and all aspects of production technology and construction standards. Using specific examples rather than describing the various elements, Vacuum Technique supplies engineers, technicians, researchers, and students with needed expertise and a comprehensive guide to designing, selecting, and using an appropriate vacuum system for a specific purpose.

Vacuum Technique presents a comprehensive treatment of vacuum technology. It gives an overview of low-pressure gases and discusses the theory of vacuum technology and mathematical modeling of gas transfer in vacuum systems. The author presents explanations of specific problems in favor of describing different vacuum elements, including the computer-aided synthesis and analysis of vacuum systems. The book includes different design methods and presents the structure and characteristics of vacuum systems for low, middle, high and superhigh vacuums. It also discusses the characteristics of materials, joints, movement inputs, and all aspects of production technology and construction standards.

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