

1. Record Nr.	UNINA9910784634503321
Titolo	Handbook of vacuum science and technology [[electronic resource] /] / edited by Dorothy M. Hoffman, Bawa Singh, John H. Thomas, III
Pubbl/distr/stampa	San Diego, CA, : Academic Press, c1998
ISBN	1-281-05935-8 9786611059354 0-08-053375-2
Descrizione fisica	1 online resource (861 p.)
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Disciplina	621.5/5 21 621.55
Soggetti	Vacuum technology Mechanical engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Cover; HANDBOOK OF VACUUM SCIENCE AND TECHNOLOGY; Copyright Page; Contents; Preface; List of Contributors; Part 1: Fundamentals of Vacuum Technology and Surface Physics; Chapter 1.1. Vacuum Nomenclature and Definitions; 1.1.1 Basic Definition; 1.1.2 Pressure Regions of Vacuum; Chapter 1.2. Gas Properties; 1.2.1 Description of Vacuum as a Low-Pressure Gas; 1.2.2 Characteristics of a Gas-Basic Definitions; 1.2.3 Gas Laws; Chapter 1.3. Molecular Processes and Kinetic Theory; 1.3.1 General Description; 1.3.2 Molecular Motion; 1.3.3 Kinetic Theory Derivation of the Gas Laws; 1.3.4 Pressure 1.3.5 Molecular Mean Free Path1.3.6 Number of Impacts with the Chamber Wall; 1.3.7 Time to Form a Monolayer; 1.3.8 Thermal Transpiration; 1.3.9 Coefficient of Thermal Conductivity; 1.3.10 Coefficient of Diffusion; Chapter 1.4. Throughput, Pumping Speed, Evacuation Rate, Outgassing Rate, and Leak Rate; Chapter 1.5. Gas Flow; 1.5.1 Nature of Gas Flow; 1.5.2 Turbulent Flow; 1.5.3 Viscous, Streamline, or Laminar Flow; 1.5.4 Molecular Flow; 1.5.5 Flow

Relationships; Chapter 1.6. Conductance; 1.6.1 Conductance; 1.6.2 Conductances in Parallel; 1.6.3 Conductances in Series  
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1.8.13 Gas Release from Surfaces  
References; Part 2: Creation of Vacuum; Chapter 2.1. Technology of Vacuum Pumps - An Overview; 2.1.1 Vacuum Pump Function Basics; 2.1.2 Gas Transport: Throughput; 2.1.3 Performance Parameters; 2.1.4 Pumping Speed; 2.1.5 Pumpdown Time; 2.1.6 Ultimate Pressure; 2.1.7 Forevacuum and High-Vacuum Pumping; 2.1.8 Pump System Relationships; 2.1.9 Crossover from Rough to High-Vacuum Pumps; 2.1.10 Pumping System Design; References; Chapter 2.2. Diaphragm Pumps; 2.2.1 Introduction: Basics and Operating Principle; 2.2.2 State-of-the-Art Design and Manufacturing  
2.2.3 Performance and Technical Data  
2.2.4 Modular Concept for Specific Application Setups: Standalone Operation; 2.2.5 Diaphragm Pumps as Backing and Auxiliary Pumps in Vacuum Systems; References; Chapter 2.3. Vacuum Blowers; 2.3.1 Introduction; 2.3.2 Equipment Description; 2.3.3 Blower Operating Principle; 2.3.4 Blower Pumping Efficiency; 2.3.5 Blower Pumping Speed Calculations; 2.3.6 Power Requirements; 2.3.7 Temperature Considerations; 2.3.8 Flow and Compression Ratio Control Mechanisms; 2.3.9 Liquid-Sealed Blowers; 2.3.10 Selected System Arrangements  
Chapter 2.4. Vacuum Jet Pumps (Diffusion Pumps)

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## Sommario/riassunto

The Handbook of Vacuum Technology consists of the latest innovations in vacuum science and technology with a strong orientation towards the vacuum practitioner. It covers many of the new vacuum pumps, materials, equipment, and applications. It also details the design and maintenance of modern vacuum systems. The authors are well known experts in their individual fields with the emphasis on performance, limitations, and applications rather than theory. There are many useful tables, charts, and figures that will be of use to the practitioner. Key Features\* User oriented with man

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