

Handbook of vacuum science and technology /

Hoffman, Dorothy M. (-1996.) Singh, Bawa Thomas, John H., III Academic Press, ©1998 Handbooks and manuals. Electronic book Electronic books

Monografía

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 aremany useful tables, charts, and figures that will be of use to the practitioner. Key Features * User oriented with many useful tables, charts, and figures of use to the practitioner * Reviews new vacuum materials and equipment * Illustrates the design and maintenance of modern vacuum systems * Includes well referenced chapters

Título: Handbook of vacuum science and technology edited by Dorothy M. Hoffman, Bawa Singh, John H. Thomas, III

Editorial: San Diego, CA Academic Press ©1998

Descripción física: 1 online resource (xxii, 835 pages) illustrations

Bibliografía: Includes bibliographical references and index

Contenido: Preface. Fundamentals of Vacuum Technology and Surface Physics: B. Singh and J.H. Thomas, III, Vacuum Nomenclature and Definitions. Gas Properties. Molecular Processes and Kinetic Theory. Throughput, Pumping Speed, Evacuation Rate, Outgassing Rate, and Leak Rate. Gas Flow. Conductance. Flow Calculations. Surface Physics and Its Relation to Vacuum Science. Creation of Vacuum: M. Hablanian, The Technology of Vacuum Pumps--An Overview. F.J. Eckle, Diaphragm Pumps. J. Richman, Blowers. Vapor Jet Pumps: M. Hablanian, Diffusion Pumps. G. Ash, Cryogenic Pumps. H. Henning, Turbomolecular Pumps. J. Singleton, UHV Pumps. Vacuum Measurements: H.M. Brady, R.H. Goehner, E. Drubetsky, and W.H. Bayles, Jr., Measurements of Pressure. L. Lieszkovszky, Mass Analysis and Partial Pressure Measurement. R. Outlaw, Analysis of Partial Pressure Information. L. Hinkle, Gas Flow Measurements. Systems Design and Components: Components for

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Thomas, UHV Based Processes. Large-Scale Vacuum Based Processes: W. Robbins, Large Area Coatings. H.F.
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ISBN: 9780080533759 electronic bk.) 0080533752 electronic bk.) 1281059358 9781281059352 9780123520654 0123520657 9786611059354 6611059350

Materia: Vacuum technology- Handbooks, manuals, etc TECHNOLOGY & ENGINEERING- Mechanical. Vacuum technology.

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Enlace a formato físico adicional: Print version Handbook of vacuum science and technology. San Diego, CA : Academic Press, ©1998 0123520657 9780123520654 (DLC) 97026269 (OCoLC)37211296

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