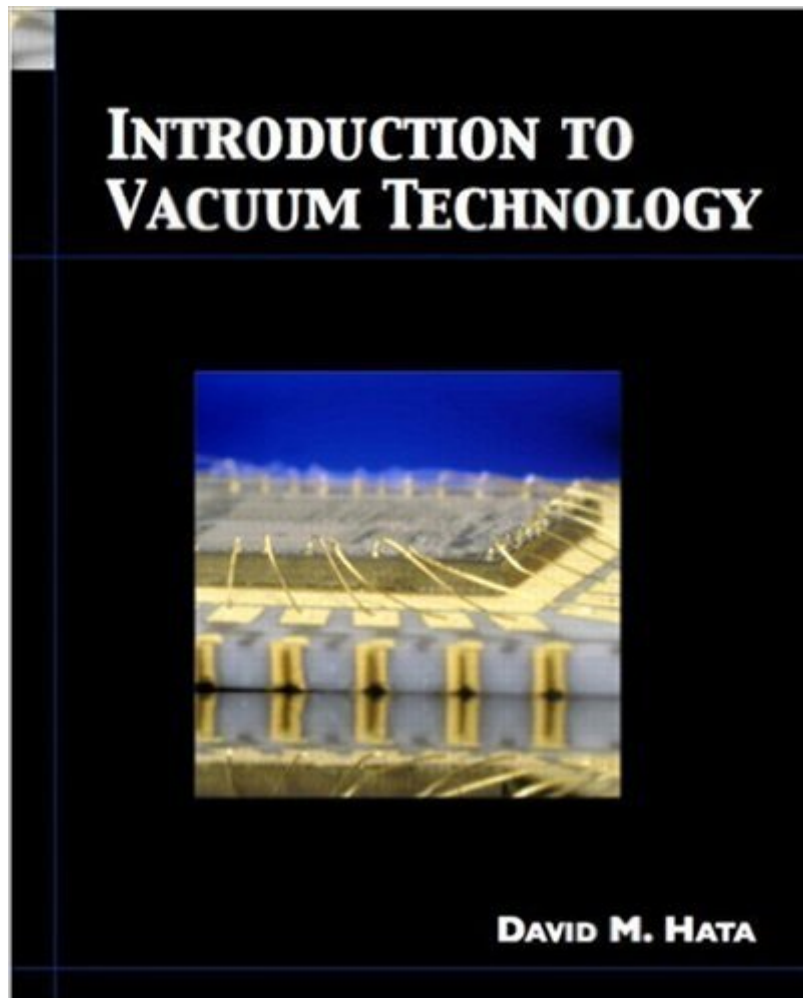


The book was found

# Introduction To Vacuum Technology



## Synopsis

The approach taken in this book is to approach vacuum systems from a pressure regime viewpoint. That is, after covering some basic chemistry, the first pressure regime covered is the rough vacuum regime. Within the study of rough vacuum systems, the following topics are covered: the gas load, the pumping mechanism, pressure measurement and vacuum system construction. The discussion of rough vacuum is then followed by the study of high-vacuum systems. The same topics are revisited, but this time from a high vacuum perspective. Once both rough vacuum and high vacuum systems are covered, then the topics of leak detection and residual gas analysis are introduced. This approach lends itself to laboratory experimentation. During the review of gas laws from chemistry, there are a number of experiments and demonstrations that can be performed to reinforce basic laws and concepts. Then, during the study of rough vacuum systems, pumpdown times can be calculated and pumpdowns performed in the laboratory. Likewise, during the study of high-vacuum systems, pumpdowns as well as other lab exercises, such as outgassing and residual gas analysis, can be conducted. Coverage of vacuum systems from a pressure regime viewpoint, rather than from a topical viewpoint. Focus on the fundamental science behind vacuum system components. This book is written for users of vacuum systems, especially the technicians that are responsible for maintaining them.

## Book Information

Paperback: 208 pages

Publisher: Pearson; 1 edition (February 9, 2007)

Language: English

ISBN-10: 0130450189

ISBN-13: 978-0130450180

Product Dimensions: 7.4 x 0.5 x 9 inches

Shipping Weight: 9.6 ounces (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars [See all reviews](#) (2 customer reviews)

Best Sellers Rank: #997,918 in Books (See Top 100 in Books) #235 in [Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Industrial Technology](#) #613 in [Books > Science & Math > Physics > Mechanics](#) #854 in [Books > Textbooks > Science & Mathematics > Mechanics](#)

## Customer Reviews

I am a beginner vacuum system user. This book is enough to get me started with basic equations,

maintenance, and precautions with a vacuum system.-Well written-Book description describes it perfectly-Definitely would recommend it to other users

I have been teaching vacuum technology at the technician level for eight years and this is the only vacuum book I know of which covers the material on that level. An excellent balance between theory and practice.

[Download to continue reading...](#)

Introduction to Vacuum Technology Vacuum Ultraviolet Spectroscopy II, Volume 32 (Experimental Methods in the Physical Sciences) Industrial Fluid Power, Vol. 1: Basic Text on Hydraulics, Air & Vacuum for Industrial and Mobile Applications The TAB Guide to Vacuum Tube Audio: Understanding and Building Tube Amps (TAB Electronics) Pulsed Electrical Discharge in Vacuum (Springer Series on Atomic, Optical, and Plasma Physics) Next Generation SOA: A Concise Introduction to Service Technology & Service-Oriented Architecture (The Prentice Hall Service Technology Series from Thomas Erl) Technology In Action Complete (13th Edition) (Evans, Martin & Poatsy, Technology in Action Series) Visualizing Technology Complete (5th Edition) (Geoghan Visualizing Technology Series) Robotics: The Beginner's Guide to Robotic Building, Technology, Mechanics, and Processes (Robotics, Mechanics, Technology, Robotic Building, Science) ECHO USER GUIDE: The Official User Guide For Using Your Echo (technology mobile communication kindle alexa computer hardware) (Echo ... & Technology Ebooks Hardware & DIY) Cloud Computing: Concepts, Technology & Architecture (The Prentice Hall Service Technology Series from Thomas Erl) Fashionable Technology: The Intersection of Design, Fashion, Science, and Technology Framing Production: Technology, Culture, and Change in the British Bicycle Industry (Inside Technology) Concrete Technology (Trade, Technology & Industry) Autonomous Vehicle Technology: A Guide for Policymakers (Transportation, Space, and Technology Program) Food Packaging Science and Technology (Packaging and Converting Technology) Foundations of Educational Technology: Integrative Approaches and Interdisciplinary Perspectives (Interdisciplinary Approaches to Educational Technology) Reeds Vol 14: Stealth Warship Technology (Reeds Marine Engineering and Technology Series) Science and Technology in the Global Cold War (Transformations: Studies in the History of Science and Technology) Technology in the Law Office, Second Edition (Technology in the Law Office, Second Edition)

[Dmca](#)