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Fundamentals Of Vacuum Technology

Fundamentals of Vacuum Technology revised and compiled by Dr. Walter Umrath
with contributions from Dr. Hermann Adam †, Alfred Bolz, Hermann Boy, Heinz
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Mundinger, Hans-Dieter Otten, Willi Scheer, Helmut Seiger,

Fundamentals of Vacuum Technology

Vacuum technology is usually associated with three types of flow: viscous or
continuum flow; molecular flow; and a transitional range between these two known
as Knudsen flow. Viscous (or continuum) flow is found in the rough vacuum range
and is determined by the close interaction of molecules. There are three sub-
divisions of viscous flow: "turbulent flow" (if vortex motion appears in the

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streaming process); "Poiseuille flow" where layers slew over each other (which is frequently the ...

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In other words, vacuum technology uses the surrounding atmosphere to create force and pull on a workpiece. The vacuum itself exerts no force; the air outside of the container exerts the force. Venturi vacuum pumps use compressed air to draw the gasses—along with any debris, dirt or dust—out of the chamber.

Fundamentals of Vacuum | Hydraulics & Pneumatics

Fundamentals of Vacuum Technology Physical fundamentals of vacuum technology - What is vacuum? - Designations, units - Vacuum ranges, flow types -... Vacuum pumps - Function, design and operation Vacuum pumping stations Vacuum systems Vacuum measurement - Total pressure measurement ...

Course: Fundamentals of Vacuum Technology

Fundamentals of Vacuum Technology by Walter Umrath. Topics Chemistry

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modern high technology. In this introduction to the physics and technology of vacuum the basic concepts of a gas composed of atoms and molecules are presented. These gas particles are contained in a partially empty volume forming the vacuum. The fundamentals of vacuum, molecular density, pressure, velocity

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distribution, mean free path, particle velocity,

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