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Compressible flow - Wikipedia

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Gas kinetics is a science in the branch of fluid dynamics, concerned with the study of motion of gases and its effects on physical systems.Based on the principles of fluid mechanics and thermodynamics, gas dynamics arises from the studies of gas flows in transonic and supersonic flights.To distinguish itself from other sciences in fluid dynamics, the studies in gas dynamics are often defined ...

Gas kinetics - Wikipedia

Gas evacuation depends on the volume of gas produced by colonic bacteria during fermentation of unabsorbed food residues arriving into the colon. 1 Hence the volume of gas depends on diet, and most subjects may experience flatulence after eating foods rich in fermentable residues, such as beans.

Intestinal gas dynamics: mechanisms and clinical relevance

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Fluid Dynamics: The Conservation Laws Energy conservation: rate of change of energy in V = energy flux across the surface (due to fluid flow) - work done by pressure + work done by forces applying divergence theorem (surface to volume integrals): energy equation $d \text{ dt } \int V 1 2 u^2 e \text{ dV} = -\dot{q} A 1 2$

Gas Dynamics: Basic Equations, Waves and Shocks

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Gas Dynamics, Volume 2: Multi-Dimensional Flow (v. 2 ...

1 The Thermodynamics and Gas Dynamics of Internal-Combustion Engines: Volume II (Oxford Science Publications) January 15, 1987, Oxford University Press, USA

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