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Compressible flow - Wikipedia

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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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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 $d/dt \int_V \rho (u^2 + e) dV = -\oint_A p \mathbf{n} \cdot d\mathbf{A}$

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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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