

Exercises in Statistical Mechanics

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This exercises pool is intended for a graduate course in “statistical mechanics”. Some of the problems are original, while other were assembled from various undocumented sources. In particular some problems originate from exams that were written by B. Horovitz (BGU), S. Fishman (Technion), and D. Cohen (BGU).

===== [Exercise 7060]

The Wall formula

Consider a “piston” of area A , moving in a ideal-gas chamber. Find an expression for the friction coefficient. [See lecture notes].