

<http://physics.colorado.edu/phys3070>

Judah Levine

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303 492-7785 (2-7785)

M,F 11-Noon, W 1-3 pm

also by appointment

Special “office” hours

Tuesday, Starting at about 5:30 pm
UMC, opposite Baby Doe’s

CAPA 4 #1

An inventor claims to have developed a wonderful new heat engine that operates with a relatively cool (and therefore nonpolluting) flame at 150 degrees Celsius, and discharges waste heat to the environment at 20 C. His promotional literature advertises that 45 percent of the fuel energy is converted into useful work. Calculate the maximum efficiency that can be expected for such an engine. (If your answer is 45 percent, enter .45) (Is he scamming you or not?)