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Therefore, it may be useful to operate with an expression that is similar to Hooke's law but describes the properties of various materials, as opposed to objects such as springs. Such an expression does exist. Consider, for instance, a bar of initial length and cross-sectional area stressed by a force of magnitude .

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carrying shingles up to a roof, are “work” in the physics sense of the word. Or, pushing a lawn mower would be work corresponding to the physics definition. When we use the word “work” for employment, such as “go to work” or “school work”, there is often no sense of physical labor or of moving something through a distance by a ...

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CHAPTER 6: Work and Energy Answers to Questions
30: A Microscopic View of Resistivity INTRO: Recall that the density J of current flowing through a material can be written in terms of microscopic properties of the material: j=nqv d , where n is the density of current carriers, q is the charge of one current carrier, and v d is the drift velocity of a current carrier.

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