

# 5

## Elasticity and Its Application



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### The Elasticity of Demand

- **Elasticity**
  - Measure of the responsiveness of quantity demanded or quantity supplied
  - To a change in one of its determinants
- **Price elasticity of demand**
  - How much the quantity demanded of a good responds to a change in the price of that good

# Elasticity And Its Application Chapter 5

**Patrick Vollmar**



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Bow (Robert Henry),1874 *Study Guide to Accompany Principles of Macroeconomics, First Canadian Edition* Fortura, Peter,Shahram Manouchehri,1999 **The Validity of Classical Nucleation Theory and Its Application to Dislocation Nucleation** Seunghwa Ryu,2011 Nucleation has been the subject of intense research because it plays an important role in the dynamics of most first order phase transitions The standard theory to describe the nucleation phenomena is the classical nucleation theory CNT because it correctly captures the qualitative features of the nucleation process However potential problems with CNT have been suggested by previous studies We systematically test the individual components of CNT by computer simulations of the Ising model and find that it accurately predicts the nucleation rate if the correct droplet free energy computed by umbrella sampling is provided as input This validates the fundamental assumption of CNT that the system can be coarse grained into a one dimensional Markov chain with the largest droplet size as the reaction coordinate Employing similar simulation techniques we study the dislocation nucleation which is essential to our understanding of plastic deformation ductility and mechanical strength of crystalline materials We show that dislocation nucleation rates can be accurately predicted over a wide range of conditions using CNT with the activation free energy determined by umbrella sampling Our data reveal very large activation entropies which contribute a multiplicative factor of many orders of magnitude to the nucleation rate The activation entropy at constant strain is caused by thermal expansion with negligible contribution from the vibrational entropy The activation entropy at constant stress is significantly larger than that at constant strain as a result of thermal softening The large activation entropies are caused by anharmonic effects showing the limitations of the harmonic approximation widely used for rate estimation in solids Similar behaviors are expected to occur in other nucleation processes in solids **Sm Macro/Micro 2e Canadian** N. Gregory Mankiw,2002-02 **Journal of analysis and its application** ,2003 **Mathematical and Physical Papers: Elasticity, heat, electro-magnetism; IV.**

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