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elastic energy is the mechanical potential energy stored in the configuration of a material or physical system as it is subjected to elastic deformation by work performed upon it elastic energy occurs when objects are impermanently compressed stretched or generally deformed in any manner elastic potential energy is energy stored as a result of applying a force to deform an elastic object the energy is stored until the force is removed and the object springs back to its original shape doing work in the process elastic potential energy also known as elastic energy is the energy stored in an elastic object when a force is applied to deform it the energy is stored as long as the force is present when the force is released the energy is converted into another form according to the conservation of energy law openstax learning objectives relate the difference of potential energy to work done on a particle for a system without friction or air drag explain the meaning of the zero of the potential energy function for a system lecture 8 energy methods in elasticity the energy methods provide a powerful tool for deriving exact and approximate solutions to many structural problems 8 1 the concept of potential energy from high school physics you must recall two equations 1 e mv2 kinematic energy 2 w mgh potential energy 8 1a 8 1b the springiness or more correctly the elasticity is a fundamental property of the wire that the spring is made from a long straight metal wire also has the ability to spring back following a stretching or twisting action winding the wire into a spring just allows us to exploit the properties of a long piece of wire in a small space elastic potential energy is the potential energy stored by the deformation of an elastic material such as a spring seen in figure 1 2 background the ability to transfer energy to this form depends on a material s elasticity the energy stored in a spring depends on the distance the spring is deformed stretched or compressed as a result the elasticity of demand for energy is somewhat inelastic in the short run but much more elastic in the long run the diagram below is an example based roughly on historical experience for the responsiveness of qd to price changes for crude oil elasticity ability of a deformed material body to return to its original shape and size when the forces causing the deformation are removed a body with this ability is said to behave or respond elastically most solid materials exhibit elastic behavior in physics and materials science elasticity is the ability of a body to resist a distorting influence and to return to its original size and shape when that influence or force is removed energy elasticity is a term used with reference to the energy

intensity of gross domestic product it is the percentage change in energy consumption to achieve one per cent change in national gdp this term has been used when describing sustainable growth in the developing world while being aware of the need to maintain the security of hooke s law f kΔl f kΔl 5 28 where Δl Δ l is the amount of deformation the change in length for example produced by the force f f and k k is a proportionality constant that depends on the shape and composition of the object and the direction of the force Δl f k Δ l f k 5 29 elastic energy is energy stored in an object due to a force that temporarily changes its shape such as squashing or stretching potential energy is energy that is stored in an object or substance elastic energy is a form of potential energy in fact it s often called elastic potential energy cool facts summary practice problems resources discussion basics elasticity is the property of solid materials to return to their original shape and size after the forces deforming them have been removed recall hooke s law first stated formally by robert hooke in the true theory of elasticity or springiness 1676 ut tensio sic vis 8 2 elastic strain energy the strain energy stored in an elastic material upon deformation is calculated below for a number of different geometries and loading conditions these expressions for stored energy will then be used to solve some elasticity problems using the energy methods mentioned in the previous section the response of energy demand to drastically higher energy prices and increasing income is a major source of uncertainty clouding global energy prospects the response energy demand elasticities concept evidence and implications part of this increase in free energy must come from a decrease in entropy that stretching induces by reducing the number of accessible chain conformations it turns out that this entropic contribution is the major part of the increase in free energy typically 90 the elasticity coefficient is an integral part of metabolic control analysis and was introduced in the early 1970s and possibly earlier by henrik kacser and burns in edinburgh and heinrich and rapoport in berlin the elasticity concept has also been described by other authors most notably savageau in michigan and clarke at our results show that on average the literature has estimated a price elasticity of energy demand in the short term of 0 21 and 0 61 in the long term several short term elasticities of energy products range between 0 29 and 0 02 whereas long term elasticities range between 0 77 and 0 19 elasticity of demand for units of energy in an economy which is highly elastic i e 1 increase in average price reduces energy consumption by 2 comparison of the 1998 2005 period with the earlier period 1990 97 indicates that the revealed elasticity is increasing between the earlier and later periods this

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