

## 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.

### 8.2.1 Strain energy in deformed Components

#### Bar under axial load

Consider a bar of elastic material fixed at one end and subjected to a steadily increasing force  $P$ , Fig. 8.2.1. The force is applied slowly so that kinetic energies are negligible. The initial length of the bar is  $L$ . The work  $dW$  done in extending the bar a small amount  $d\Delta$  is<sup>†</sup>

$$dW = Pd\Delta \quad (8.2.1)$$

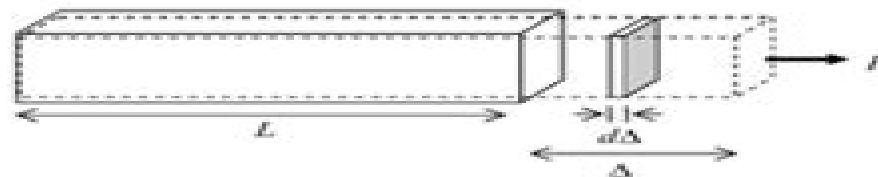


Figure 8.2.1: a bar loaded by a force

It was shown in §7.1.2 that the force and extension  $\Delta$  are linearly related through  $\Delta = PL / EA$ , Eqn. 7.1.5, where  $E$  is the Young's modulus and  $A$  is the cross sectional area. This linear relationship is plotted in Fig. 8.2.2. The work expressed by Eqn. 8.2.1 is the white region under the force-extension curve (line). The total work done during the complete extension up to a *final* force  $P$  and *final* extension  $\Delta$  is the total area beneath the curve.

The work done is stored as elastic strain energy  $U$  and so

$$U = \frac{1}{2} P\Delta = \frac{P^2 L}{2EA} \quad (8.2.2)$$

If the axial force (and/or the cross-sectional area and Young's modulus) varies along the bar, then the above calculation can be done for a small element of length  $dx$ . The energy stored in this element would be  $P^2 dx / 2EA$  and the total strain energy stored in the bar would be

<sup>†</sup> the small change in force  $dP$  which occurs during this small extension may be neglected, since it will result in a smaller-order term of the form  $dP d\Delta$

# Solutions Manual Elastic Energy Methods

**United States. Energy Research and  
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**Scientific and Technical Aerospace Reports**, 1991 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

*ASCE Manuals and Reports on Engineering Practice*, 1962

*Catalogue for the Academic Year* Naval Postgraduate School (U.S.), 1970

**EBOOK: Vector Mechanics for Engineers: Statics (SI units)** Ferdinand Beer, E. Johnston, David Mazurek, 2012-10-16 Target Audience This text is designed for the first course in Statics offered in the sophomore year Overview The main objective of a first course in mechanics should be to develop in the engineering student the ability to analyze any problem in a simple and logical manner and to apply to its solution a few well understood basic principles This text is designed to help the instructor achieve this goal Vector analysis is introduced early in the text and is used in the presentation and discussion of the fundamental principles of mechanics Vector methods are also used to solve many problems particularly three dimensional problems where these techniques result in a simpler and more concise solution The emphasis in this text however remains on the correct understanding of the principles of mechanics and on their application to the solution of engineering problems and vector analysis is presented chiefly as a convenient tool In order to achieve the goal of being able to analyze mechanics problems the text employs the following pedagogical strategy Practical applications are introduced early New concepts are introduced simply Fundamental principles are placed in simple contexts Students are given extensive practice through sample problems special sections entitled Solving Problems on Your Own extensive homework problem sets review problems at the end of each chapter and computer problems designed to be solved with computational software Resources Supporting This Textbook Instructor's and Solutions Manual features typeset one per page solutions to the end of chapter problems It also features a number of tables designed to assist instructors in creating a schedule of assignments for their course The various topics covered in the text have been listed in Table I and a suggested number of periods to be spent on each topic has been indicated Table II prepares a brief

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