

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[†]

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

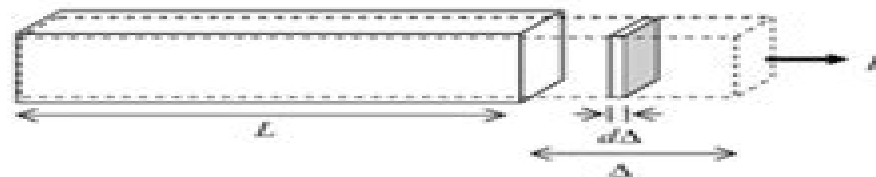


Figure 8.2.1: a bar loaded by a force

It was shown in §7.1.2 that the force and extension Δ 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 Δ 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

[†] 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 $dP d\Delta$

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J Dewey



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Intermediate Solid Mechanics Marko V. Lubarda, Vlado A. Lubarda, 2020-01-09 Based on class tested material this concise yet comprehensive treatment of the fundamentals of solid mechanics is ideal for those taking single semester courses on the subject It provides interdisciplinary coverage of the key topics combining solid mechanics with structural design applications mechanical behavior of materials and the finite element method Part I covers basic theory including the analysis of stress and strain Hooke's law and the formulation of boundary value problems in Cartesian and cylindrical coordinates Part II covers applications from solving boundary value problems to energy methods and failure criteria two dimensional plane stress and strain problems antiplane shear contact problems and much more With a wealth of solved examples assigned exercises and 130 homework problems and a solutions manual available online this is ideal for senior undergraduates studying solid mechanics and graduates taking introductory courses in solid mechanics and theory of elasticity across aerospace civil and mechanical engineering and materials science

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

Atomic Energy Research Reports for Sale by the U.S. Department of Commerce, Office of Technical Services Business and Defense Services Administration, 1963

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 description of all groups of problems Sample lesson schedules are shown in Tables III IV and V together with various alternative lists of assigned homework problems For additional resources related to users of this SI edition please visit <http://www.mheducation.asia/olc/beerjohnston> McGraw Hill Connect Engineering a web based assignment and assessment platform is available at <http://www.mhhe.com/beerjohnston> and includes algorithmic problems from the text Lecture PowerPoints an image bank and animations Hands on Mechanics is a website designed for instructors who are interested in incorporating three dimensional hands on teaching aids into their lectures Developed through a partnership between the McGraw Hill Engineering Team and the Department of Civil and Mechanical Engineering at the United States Military Academy at West Point this website not only provides detailed instructions for how to build 3 D teaching tools using materials found in any lab or local hardware store but also provides a community where educators can share ideas trade best practices and submit their own original demonstrations for posting on the site Visit <http://www.handsonmechanics.com> McGraw Hill Tegrity a service that makes class time available all the time by automatically capturing every lecture in a searchable format for students to review when they study and complete assignments To learn more about Tegrity watch a 2 minute Flash demo at <http://tegritycampus.mhhe.com> Canadian Engineer, 1914 **U.S. Government Research & Development Reports**, 1967 **Technical Publications**

Announcements with Indexes United States. National Aeronautics and Space Administration, 1962 Mechanical Testing and Evaluation Howard Kuhn, Dana Medlin, ASM International. Handbook Committee, 2000 This book is ASM's standard reference on the mechanical characteristics and testing of metals plastics ceramics and composites Understand the basics of mechanical behavior with in depth coverage on testing methods for those materials Comparative mechanical properties and the mechanical characteristics of metals plastics and ceramics are included throughout for general reference Updated references to ISO ASTM DIN EN JIS and other standards are also included *Mechanics of Solids and Structures* David W A. Rees, 2000 **Energy Research Abstracts**, 1990 ASM Handbook, 1990 These volumes cover the properties processing and applications of metals and nonmetallic engineering materials They are designed to provide the authoritative information and data necessary for the appropriate selection of materials to meet critical design and performance criteria

Applied Mechanics Reviews, 1974 **Nuclear Science Abstracts**, 1970-10 *Books in Print Supplement*, 1985 *Subject Guide to Books in Print*, 1993 *ERDA Energy Research Abstracts* United States. Energy Research and Development Administration, 1977 **Journal of Applied Mechanics**, 1972 Publishes original research in all branches of mechanics including aerodynamics aeroelasticity boundary layers computational mechanics constitutive modeling of materials dynamics elasticity flow and fracture heat transfer hydraulics impact internal flow mechanical properties of materials micromechanics plasticity stress analysis structures thermodynamics turbulence vibration and wave propagation

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