

2.10 Generalized Hooke's Law

The normal strains are related to normal stresses by

$$\epsilon_x = \frac{1}{E} (\sigma_x - \nu (\sigma_y + \sigma_z))$$

$$\epsilon_y = \frac{1}{E} (\sigma_y - \nu (\sigma_x + \sigma_z))$$

$$\epsilon_z = \frac{1}{E} (\sigma_z - \nu (\sigma_x + \sigma_y))$$

The shear strains are related to shear stresses by

$$\gamma_{xy} = \frac{\tau_{xy}}{G}$$

$$\gamma_{yz} = \frac{\tau_{yz}}{G}$$

$$\gamma_{xz} = \frac{\tau_{xz}}{G}$$

where G is the shear modulus given by

$$G = \frac{E}{2(1+\nu)}$$

Physical meaning of the above relations will be discussed in class

2.13+ Elastic Strain Energy U & Elastic Strain Energy Density u

The work done by external forces in producing deformation is stored within the body as strain energy U . The strain energy per unit volume is called the strain energy density u .

The strain energy U stored in the bar is given by

$$U = \int u \, dV, \text{ where } V \text{ is the volume of the bar}$$

$$\Rightarrow U = \int u \, dx \, dy \, dz$$

Examples:

- Axially Loaded Bar**

Generally, for axially-loaded members, the strain energy per unit volume u stored in the bar is given by:

$$u = \frac{1}{2} \sigma \epsilon = \frac{1}{2} E \epsilon^2 = \frac{1}{2} \sigma^2 / E,$$

where σ , ϵ , E are the normal stress, the corresponding normal strain, and elastic modulus of the bar.

Consider a bar subjected to an axial force P . Assuming that the length is L and cross-sectional area is A . Then the work done is given

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M Lipman



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ASCE Manuals and Reports on Engineering Practice, 1962

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

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