

1. Record Nr.	UNINA9910699563803321
Titolo	Women as agents of change [[electronic resource]] : advancing the role of women in politics and civil society : hearing before the Subcommittee on International Organizations, Human Rights, and Oversight of the Committee on Foreign Affairs, House of Representatives, One Hundred Eleventh Congress, second session, June 9, 2010
Pubbl/distr/stampa	Washington : , : U.S. G.P.O., , 2010
Descrizione fisica	1 online resource (iii, 116 pages)
Soggetti	Women's rights Women - Social conditions Women - Political activity Women legislators Women - Political activity - Afghanistan Women - Political activity - Iraq
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from title screen (viewed on Aug. 17, 2010). "Serial no. 111-97."
Nota di bibliografia	Includes bibliographical references.

2. Record Nr.	UNINA9910830640903321
Autore	Gay Daniel <1942->
Titolo	Modeling and dimensioning of structures [[electronic resource]] : a practical approach / / Daniel Gay, Jacques Gambelin
Pubbl/distr/stampa	London, : ISTE Ltd. Hoboken, NJ, : Wiley, c2008
ISBN	1-282-25386-7 9786613814517 0-470-61128-6 0-470-39390-4
Descrizione fisica	1 online resource (737 p.)
Collana	A practical approach
Altri autori (Persone)	GambelinJacques
Disciplina	624.1 624.1/7
Soggetti	Structural engineering - Data processing Structural engineering - Mathematics Structural analysis (Engineering) Structural frames - Mathematical models Engineering drawings - Dimensioning
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Modeling and Dimensioning of Structures; Table of Contents; Preface; Part 1. Level 1; Chapter 1. The Basics of Linear Elastic Behavior; 1.1. Cohesion forces; 1.2. The notion of stress; 1.2.1. Definition; 1.2.2. Graphical representation; 1.2.3. Normal and shear stresses; 1.3. Hooke's law derived from a uniaxially applied force; 1.3.1. The stretch test; 1.3.2. Linear mechanical behavior; 1.3.3. Elastic mechanical behavior; 1.3.4. Interpretation of the test at a macroscopic level; 1.3.5. Interpretation of the test at a mesoscopic level; 1.3.6. Interpretation of the test at a microscopic level 1.5.2.3. Shear resultant Tz 1.5.2.4. Torsion moment Mt 1.5.2.5. Bending moment Mfy 1.5.2.6. Bending moment Mfz; Chapter 2. Mechanical Behavior of Structures: An Energy Approach; 2.1. Work and energy; 2.1.1. Elementary work developed by a force; 2.1.2. Elementary work developed by a moment; 2.2. Conversion of work into energy;

2.2.1. Potential energy of deformation; 2.2.2. Potential energy for a spring; 2.3. Some standard expressions for potential deformation energy; 2.3.1. Deformation energies in a straight beam; 2.3.1.1. Traction (or compression); 2.3.1.2. Torsion
2.3.1.3. Pure bending (xy plane) 2.3.1.4. Plane bending (xy plane);
2.3.2. Deformation energy under plane stresses; 2.3.2.1. Case 1: dF_x (Figure 2.17); 2.3.2.2. Case 2: dF_x then dF_y (Figure 2.18); 2.3.2.3. Case 3: dF_x then dF_y followed by dF_{xy} (Figure 2.19); 2.3.2.4. Different expressions for potential energy: quadratic forms; 2.4. Work produced by external forces on a structure; 2.4.1. Beam under plane bending subjected to two forces; 2.4.1.1. Example 1; 2.4.1.2. Example 2; 2.4.2. Beam in plane bending subject to "n" forces; 2.4.3. Generalization to any structure
2.4.3.1. Structure loaded by two forces 1 F and F_2 ; 2.4.3.2. Structure loaded by "n" forces F_1, \dots, F_n ; 2.4.3.3. A search for real displacements on a loaded structure; 2.4.4. Summary; 2.5. Links of a structure with its surroundings; 2.5.1. Example; 2.5.2. Generalization; 2.5.2.1. Structures with rigid-body movements; 2.5.2.2. "Properly linked" structure; 2.6. Stiffness of a structure; 2.6.1. Preliminary note; 2.6.2. Stiffness matrix; 2.6.3. Examples; 2.6.3.1. Example: beam under plane bending loaded by two forces; 2.6.3.2. Example: beam under plane bending loaded by a force and a moment
2.6.3.3. Generalization

Sommario/riassunto

This book provides the main topics currently used for the calculus of structures. The reference establishes a link between the traditional approach on the strength of materials and the present finite element method, details the main aspects of practical modeling, and explores numerous case studies.
