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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 Electronic books.
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 $T_z$ ; 1.5.2.4. Torsion moment $M_t$ ; 1.5.2.5. Bending moment $M_{fy}$ ; 1.5.2.6. Bending moment $M_{fz}$ ; 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  $F_1$  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

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## 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.

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2. Record Nr.	UNIORUON00044056
Autore	HERDNER, Andrée
Titolo	Corpus des tablettes en cunéiformes alphabétiques découvertes à Ras Shamra-Ugarit de 1929-à 1939 / par Andrée Herdner
Pubbl/distr/stampa	Paris, : Imprimerie Nationale, 1963
Descrizione fisica	XXXV, 339 p.,1 v. di tav. ; 26 cm
Classificazione	SIPA III UG
Soggetti	FILOLOGIA UGARITICA - Testi FILOLOGIA ACCADICA - EDITTI REALI LETTERATURA CUNEIFORME - TESTI UGARITICI
Lingua di pubblicazione	Francese
Formato	Materiale a stampa
Livello bibliografico	Monografia
3. Record Nr.	UNINA9910446358003321
Titolo	A&A practice
Pubbl/distr/stampa	[Philadelphia, PA] : , : Wolters Kluwer Health, Inc., , [2018]-
ISSN	2575-3126
Descrizione fisica	1 online resource
Disciplina	617
Soggetti	Anesthesiology Periodical Fulltext Internet Resources. Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed

