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Titolo	An introduction to the mechanics of elastic and plastic deformation of solids and structural materials [[electronic resource] /] / E.J. Hearn
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Collana	Mechanics of materials ; ; 1
Disciplina	620.1/123
Soggetti	Strength of materials Elasticity
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
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Nota di contenuto	Front Cover; Mechanics of Materials 1; Copyright Page; Contents; Introduction; Notation; Chapter 1. Simple Stress and Strain; 1.1 Load; 1.2 Direct or normal stress (); 1.3 Direct strain (); 1.4 Sign convention for direct stress and strain; 1.5 Elastic materials - Hooke's law; 1.6 Modulus of elasticity - Young's modulus; 1.7 Tensile test; 1.8 Ductile materials; 1.9 Brittle materials; 1.10 Poisson's ratio; 1.11 Application of Poisson's ratio to a two-dimensional stress system; 1.12 Shear stress; 1.13 Shear strain; 1.14 Modulus of rigidity; 1.15 Double shear 1.16 Allowable working stress - factor of safety 1.17 Load factor; 1.18 Temperature stresses; 1.19 Stress concentrations - stress concentration factor; 1.20 Toughness; 1.21 Creep and fatigue; Examples; Problems; Bibliography; Chapter 2. Compound Bars; Summary; 2.1 Compound bars subjected to external load; 2.2 Compound bars- "equivalent" or "combined" modulus; 2.3 Compound bars subjected to temperature change; 2.4 Compound bar (tube and rod); 2.5 Compound bars subjected to external load and temperature effects; 2.6 Compound thick cylinders subjected to temperature changes; Examples Problems Chapter 3. Shearing Force and Bending Moment Diagrams; Summary; 3.1 Shearing force and bending moment; 3.2 S.F. and B.M.

diagrams for beams carrying concentrated loads only; 3.3 S.F and B.M. diagrams for uniformly distributed loads; 3.4 S.F. and B.M. diagrams for combined concentrated and uniformly distributed loads; 3.5 Points of contraflexure; 3.6 Relationship between S.F. Q, B.M. M, and intensity of loading w; 3.7 S.F. and B.M. diagrams for an applied couple or moment; 3.8 S.F. and B.M. diagrams for inclined loads; 3.9 Graphical construction of S.F and B.M. diagrams
3.10 S.F. and B.M. diagrams for beams carrying distributed loads of increasing value
3.11 S.F. at points of application of concentrated loads; Examples; Problems; Chapter 4. Bending; Summary; Introduction; 4.1 Simple bending theory; 4.2 Neutral axis; 4.3 Section modulus; 4.4 Second moment of area; 4.5 Bending of composite or flitched beams; 4.6 Reinforced concrete beams - simple tension reinforcement; 4.7 Skew loading; 4.8 Combined bending and direct stress-eccentric loading; 4.9 ""Middle-quarter"" and ""middle-third"" rules; 4.10 Shear stresses owing to bending; 4.11 Strain energy in bending
4.12 Limitations of the simple bending theory
Examples; Problems; Chapter 5. Slope and Deflection of Beams; Summary; Introduction; 5.1 Relationship between loading, S.F., B.M., slope and deflection; 5.2 Direct integration method; 5.3 Macaulay's method; 5.4 Macaulay's method for u.d.l's; 5.5 Macaulay's method for beams with u.d.l. applied over part of the beam; 5.6 Macaulay's method for couple applied at a point; 5.7 Mohr's ""area-moment"" method; 5.8 Principle of superposition; 5.9 Energy method; 5.10 Maxwell's theorem of reciprocal displacements
5.11 Continuous beams - Clapeyron's ""three-moment"" equation

Sommario/riassunto

One of the most important subjects for any student of engineering to master is the behaviour of materials and structures under load. The way in which they react to applied forces, the deflections resulting and the stresses and strains set up in the bodies concerned are all vital considerations when designing a mechanical component such that it will not fail under predicted load during its service lifetime. All the essential elements of a treatment of these topics are contained within this course of study, starting with an introduction to the concepts of stress and strain, shear force a

2. Record Nr.	UNINA9910777982103321
Autore	Starr Deborah A. <1968->
Titolo	Remembering cosmopolitan Egypt [[electronic resource]] : literature, culture, and empire // Deborah A. Starr
Pubbl/distr/stampa	New York, N.Y., : Routledge, 2009
ISBN	1-135-97407-1 1-282-15304-8 9786612153044 0-203-88136-2
Descrizione fisica	1 online resource (212 p.)
Collana	Routledge studies in Middle Eastern literatures ; ; 21
Disciplina	962/04
Soggetti	Egypt Civilization Western influences Egypt Fiction Cairo (Egypt) Fiction Alexandria (Egypt) Fiction
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	pt. 1. Colonial anxieties and cosmopolitan desires -- pt. 2. Counterpoint New York -- pt. 3. A mobile Levant.
Sommario/riassunto	Remembering Cosmopolitan Egypt examines the link between cosmopolitanism in Egypt, from the nineteenth century through to the mid-twentieth century, and colonialism. While it has been widely noted that such a relationship exists, the nature and impact of this dynamic is often overlooked. Taking a theoretical, literary and historical approach, the author argues that the notion of the cosmopolitan is inseparable from, and indebted to, its foundation in empire. Since the late 1970s a number of artistic works have appeared that represent the diversity of ethnic, national, and rel