1. Record Nr. UNINA9910455767003321

Autore	Shepheard Paul
Titolo	Artificial love [[electronic resource]] : a story of machines and architecture / / Paul Shepheard
Pubbl/distr/stampa	Cambridge, MA, : MIT Press, c2003
ISBN	1-299-45768-1 0-262-28349-2 0-585-48108-3
Descrizione fisica	1 online resource (311 p.)
Disciplina	720/.1/05
Soggetti	Architecture and technology Architecture - Aesthetics Mechanical engineering Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Sommario/riassunto	A vision of architecture that includes sculpture, machines, and technology and encapsulates the history of the human species. According to Paul Shepheard, architecture is the rearranging of the world for human purposes. Sculpture, machines, and landscapes are all architecture-every bit as much as buildings are. In his writings, Shepheard examines old assumptions about architecture and replaces the critical theory of the academic with the active theory of the architect-citizen enamored of the world around him.Artificial Love weaves together three stories about architecture into one. The first, about machines as architecture, leads to speculations about technology and the human condition and to the assertion that machines are the sculptures of today. The second story is about the ways that architecture reflects the tribal and personal desires of those who make it. In the West, ideas of community, multiculturalism, and globalization compete furiously, leaving architecture to exist as it always has, as the past in the present. The third story features individual people experiencing their lives in the context of architecture. Here, Shepheard

	borrows the rhetorical device of Shakespeare's seven ages of man to propose that each person's life imitates the accumulating history of the human species. Shepheard's version of the history of humans is a technological one, in which machines become sculpture and sculpture becomes architecture. For Shepheard, our machines do not separate us from nature. Rather, our technology is our nature, and we cannot but be in harmony with nature. The change that we have wrought in the world, he says, is a wonderful and powerful thing.

2.

Record Nr.	UNINA9910438059803321
Autore	Teodorescu P. P
Titolo	Treatise on classical elasticity : theory and related problems / / Petre P. Teodorescu
Pubbl/distr/stampa	Dordrecht ; ; New York, : Springer, c2013
ISBN	94-007-2616-3
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (805 p.)
Collana	Mathematical and analytical techniques with applications to engineering
Disciplina	620.11232
Soggetti	Elasticity Strains and stresses
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes indexes.
Nota di contenuto	Preface -- 1: Introduction -- 2: Geometry and Kinematics of Deformation -- 3: Mechanics of Stresses -- 4: Mathematical Models in Mechanics of Deformable Solids -- 5: General Equations of the Theory of Elasticity. Formulation of Problems -- 6: Principles and General Theorems of the Theory of Elasticity. Computation Methods -- 7: Introduction to the Theory of Cosserat type Bodies -- 8: Theory of Concentrated Loads -- 9: Elastic Space. Elastic Half-space -- 10: Elastic Eights-space. Elastic Quarter-space -- 11: Elastic Parallelepiped. Elastic Strip. Elastic Layer. Thick Plate -- 12: Dynamical Problems of Elastic Bodies -- 13: Particular Cases of States of Strain and Stress -- 14: Anisotropic and Non-homogeneous Bodies -- 15: Introduction to Thermoelasticity -- 16: Introduction to Linear Viscoelasticity -- A: Appendix -- 1: Elements of Tensor Calculus -- 2:

Curvilinear Coordinates -- 3: Elements of the Theory of Distributions -- 4: Notations and Integrals -- Subject Index -- Name Index.

Sommario/riassunto

Deformable solids have a particularly complex character; mathematical modeling is not always simple and often leads to inextricable difficulties of computation. One of the simplest mathematical models and, at the same time, the most used model, is that of the elastic body – especially the linear one. But, notwithstanding its simplicity, even this model of a real body may lead to great difficulties of computation. The practical importance of a work about the theory of elasticity, which is also an introduction to the mechanics of deformable solids, consists of the use of scientific methods of computation in a domain in which simplified methods are still used. This treatise takes into account the consideration made above, with special attention to the theoretical study of the state of strain and stress of a deformable solid. The book draws on the known specialized literature, as well as the original results of the author and his 50+ years experience as Professor of Mechanics and Elasticity at the University of Bucharest. The construction of mathematical models is made by treating geometry and kinematics of deformation, mechanics of stresses and constitutive laws. Elastic, plastic and viscous properties are thus put in evidence and the corresponding theories are developed. Space problems are treated and various particular cases are taken into consideration. New solutions for boundary value problems of finite and infinite domains are given and a general theory of concentrated loads is built. Anisotropic and non-homogeneous bodies are studied as well. Cosserat type bodies are also modeled. The connection with thermal and viscous phenomena will be considered too. Audience: researchers in applied mathematics, mechanical and civil engineering.