

Analogy between Fluid Mechanics and Solid Mechanics

In general, the displacement field for both solids and fluids are represented as:

$$\vec{u} = u_i \hat{e}_i = u_1 \hat{e}_1 + u_2 \hat{e}_2 + u_3 \hat{e}_3$$

Assuming Cartesian coordinate system:

$$\vec{u} = u\hat{i} + v\hat{j} + w\hat{k}$$

Where strain is described as

$$\epsilon_{xx} = \frac{\partial u}{\partial x}, \quad \epsilon_{yy} = \frac{\partial v}{\partial y}, \quad \epsilon_{zz} = \frac{\partial w}{\partial z}, \quad \gamma_{xy} = \frac{\partial u}{\partial y} + \frac{\partial v}{\partial x}, \quad \gamma_{yz} = \frac{\partial v}{\partial z} + \frac{\partial w}{\partial y}, \quad \gamma_{zx} = \frac{\partial u}{\partial z} + \frac{\partial w}{\partial x}$$

Expressing the strain tensor and displacement vector using differential operator tensor:

$$\vec{\epsilon} = \vec{\nabla} \vec{u} \quad \text{where} \quad \vec{\sigma} = \vec{D} \cdot \vec{\epsilon} \quad [\text{As per Hooke's law for Linear Isotropic Elastic Material}]$$

$$\vec{\epsilon} = \begin{Bmatrix} \epsilon_{xx} \\ \epsilon_{yy} \\ \epsilon_{zz} \\ \gamma_{xy} \\ \gamma_{yz} \\ \gamma_{zx} \end{Bmatrix}, \quad \vec{\sigma} = \begin{Bmatrix} \sigma_{xx} \\ \sigma_{yy} \\ \sigma_{zz} \\ \tau_{xy} \\ \tau_{yz} \\ \tau_{zx} \end{Bmatrix}, \quad \vec{D} = \frac{E}{(1+\nu)(1-2\nu)} \begin{bmatrix} 1-\nu & \nu & \nu & 0 & 0 & 0 \\ \nu & 1-\nu & \nu & 0 & 0 & 0 \\ \nu & \nu & 1-\nu & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{1-2\nu}{2} & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{1-2\nu}{2} & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{1-2\nu}{2} \end{bmatrix}$$

Define:

$$\lambda = \frac{2\nu G}{2-2\nu} = \frac{\nu E}{(1+\nu)(1-2\nu)}, \quad G = \frac{E}{2(1+\nu)}$$

\vec{B} = Distributed body force per unit volume

$\rho \vec{u}$ = Inertial forces applicable only when body is accelerating

Equilibrium equations:

$$\frac{\partial \sigma_{xx}}{\partial x} + \frac{\partial \tau_{xy}}{\partial y} + \frac{\partial \tau_{xz}}{\partial z} + B_x = \rho \ddot{u}, \quad \frac{\partial \tau_{xy}}{\partial x} + \frac{\partial \sigma_{yy}}{\partial y} + \frac{\partial \tau_{yz}}{\partial z} + B_y = \rho \ddot{v}, \quad \frac{\partial \tau_{xz}}{\partial x} + \frac{\partial \tau_{yz}}{\partial y} + \frac{\partial \sigma_{zz}}{\partial z} + B_z = \rho \ddot{w}$$

$$\Rightarrow \vec{\nabla}^T \vec{\sigma} + \vec{B} = \rho \vec{u}$$

Where

Solid Mechanics

Clive L. Dym, Irving H. Shames



Solid Mechanics:

Solid Mechanics William F. Hosford, 2010-03-22 This is a textbook for courses in civil and mechanical engineering that are commonly called Strength of Materials or Mechanics of Materials The intent of this book is to provide a background in the mechanics of solids for students of mechanical engineering while limiting the information on why materials behave as they do It is assumed that the students have already had courses covering materials science and basic statics Much of the material is drawn from another book by the author Mechanical Behavior of Materials To make the text suitable for mechanical engineers the chapters on slip dislocations twinning residual stresses and hardening mechanisms have been eliminated and the treatment of ductility viscoelasticity creep ceramics and polymers has been simplified

Solid Mechanics J.P. Ward, 1992-08-31 This book is intended as an introductory text on Solid Mechanics suitable for engineers scientists and applied mathematicians Solid mechanics is treated as a subset of mathematical engineering and courses on this topic which include theoretical numerical and experimental aspects as this text does can be amongst the most interesting and accessible that an undergraduate science student can take I have concentrated entirely on linear elasticity being to the beginner the most amenable and accessible aspect of solid mechanics It is a subject with a long history though its development in relatively recent times can be traced back to Hooke circa 1670 Partly because of its long history solid mechanics has an old fashioned feel to it which is reflected in numerous texts written on the subject This is particularly so in the classic text by Love A Treatise on the Mathematical Theory of Elasticity 4th ed Cambridge Univ Press 1927 Although there is a wealth of information in that text it is not in a form which is easily accessible to the average lecturer let alone the average engineering student This classic style avoiding the use of vectors or tensors has been mirrored in many other more modern texts

Principles of Solid Mechanics Rowland Richards, Jr., 2000-12-12 Evolving from more than 30 years of research and teaching experience Principles of Solid Mechanics offers an in depth treatment of the application of the full range theory of deformable solids for analysis and design Unlike other texts it is not either a civil or mechanical engineering text but both It treats not only analysis but incorporates design along with experimental observation Principles of Solid Mechanics serves as a core course textbook for advanced seniors and first year graduate students The author focuses on basic concepts and applications simple yet unsolved problems inverse strategies for optimum design unanswered questions and unresolved paradoxes to intrigue students and encourage further study He includes plastic as well as elastic behavior in terms of a unified field theory and discusses the properties of field equations and requirements on boundary conditions crucial for understanding the limits of numerical modeling Designed to help guide students with little experimental experience and no exposure to drawing and graphic analysis the text presents carefully selected worked examples The author makes liberal use of footnotes and includes over 150 figures and 200 problems This along with his approach allows students to see the full range non linear response of structures

Introduction to Solid Mechanics Jacob Lubliner, Panayiotis

Papadopoulos,2016-10-12 This expanded second edition presents in one text the concepts and processes covered in statics and mechanics of materials curricula following a systematic topically integrated approach Building on the novel pedagogy of fusing concepts covered in traditional undergraduate courses in rigid body statics and deformable body mechanics rather than simply grafting them together this new edition develops further the authors very original treatment of solid mechanics with additional figures an elaboration on selected solved problems and additional text as well as a new subsection on viscoelasticity in response to students feedback Introduction to Solid Mechanics An Integrated Approach Second Edition offers a holistic treatment of the depth and breadth of solid mechanics and the inter relationships of its underlying concepts Proceeding from first principles to applications the book stands as a whole greater than the sum of its parts **Advanced Solid Mechanics** Farzad Hejazi,Tan Kar Chun,2021-05-09 The main aim of this book is to demonstrate the fundamental theory of advanced solid mechanics through simplified derivations with details illustrations to deliver the principal concepts It covers all conceptual principals on two and three dimensional stresses strains stress strain relations theory of elasticity and theory of plasticity in any type of solid materials including anisotropic orthotropic homogenous and isotropic Detailed explanation and clear diagrams and drawings are accompanied with the use of proper jargons and notations to present the ideas and appropriate guide the readers to explore the core of the advanced solid mechanics backed by case studies and examples Aimed at undergraduate senior undergraduate students in advanced solid mechanics solid mechanics strength of materials civil mechanical engineering this book Provides simplified explanation and detailed derivation of correlation and formula implemented in advanced solid mechanics Covers state of two and three dimensional stresses and strains in solid materials in various conditions Describes principal constitutive models for various type of materials include of anisotropic orthotropic homogenous and isotropic materials Includes stress strain relation and theory of elasticity for solid materials Explores inelastic behaviour of material theory of plasticity and yielding criteria *Introduction to Mechanics of Solid Materials* Lallit Anand,Ken Kamrin,Sanjay Govindjee,2023-01-13 Aimed at beginner to mid level undergraduate students across the many branches of engineering this textbook aims to provide a unified presentation of the major concepts in Solid Mechanics including the deformation flow and fracture of solid materials **Solid Mechanics** Albrecht Bertram,Rainer Glüge,2015-06-13 This textbook offers an introduction to modeling the mechanical behavior of solids within continuum mechanics and thermodynamics To illustrate the fundamental principles the book starts with an overview of the most important models in one dimension Tensor calculus which is called for in three dimensional modeling is concisely presented in the second part of the book Once the reader is equipped with these essential mathematical tools the third part of the book develops the foundations of continuum mechanics right from the beginning Lastly the book s fourth part focuses on modeling the mechanics of materials and in particular elasticity viscoelasticity and plasticity Intended as an introductory textbook for students and for professionals interested in self study it also features numerous worked out examples to aid in understanding

Principles of Solid Mechanics Rowland Richards, Jr., 2000-12-12 Evolving from more than 30 years of research and teaching experience *Principles of Solid Mechanics* offers an in depth treatment of the application of the full range theory of deformable solids for analysis and design Unlike other texts it is not either a civil or mechanical engineering text but both It treats not only analysis but incorporates **SOLID MECHANICS FOR MATERIALS ENGINEERS -- Principles and Applications of Mesomechanics** Yunan Prawoto, 2014 This book follows a model of modern pedagogy It is interdisciplinary and uses specific examples to teach general principles This text is organized into three main sections The first section reviews aspects of solid mechanics with topics normally covered in standard materials courses but also dealing with purer mechanics concepts of relevance in materials science The second section deals with analytical and computational ideas The third section is called Experimental Method though it is really a series of examples based on Prof Prawoto's personal experience This type of presentation the use of particular examples to demonstrate broader concepts is powerful

Engineering Solid Mechanics Abdel-Rahman A. Ragab, Salah Eldin Ahm Bayoumi, 1998-12-22 *Engineering Solid Mechanics* bridges the gap between elementary approaches to strength of materials and more advanced specialized versions on the subject The book provides a basic understanding of the fundamentals of elasticity and plasticity applies these fundamentals to solve analytically a spectrum of engineering problems and introduces advanced topics of mechanics of materials including fracture mechanics creep superplasticity fiber reinforced composites powder compacts and porous solids Text includes stress and strain equilibrium and compatibility elastic stress strain relations the elastic problem and the stress function approach to solving plane elastic problems applications of the stress function solution in Cartesian and polar coordinates Problems of elastic rods plates and shells through formulating a strain compatibility function as well as applying energy methods Elastic and elastic plastic fracture mechanics Plastic and creep deformation Inelastic deformation and its applications This book presents the material in an instructive manner suitable for individual self study It emphasizes analytical treatment of the subject which is essential for handling modern numerical methods as well as assessing and creating software packages The authors provide generous explanations systematic derivations and detailed discussions supplemented by a vast variety of problems and solved examples Primarily written for professionals and students in mechanical engineering *Engineering Solid Mechanics* also serves persons in other fields of engineering such as aerospace civil and material engineering **Introduction to Solid Mechanics** Irving Herman Shames, James M. Pitarresi, 2000 Rather than a rote cookbook approach to problem solving this book offers a rigorous treatment of the principles behind the practices asking students to harness their sound foundation of theory when solving problems A wealth of examples illustrate the meaning of the theory without simply offering recipes or maps for solving similar problems **Springer Handbook of Experimental Solid Mechanics** William N. Sharpe, Jr., William N. Sharpe, 2008-12-04 The *Springer Handbook of Experimental Solid Mechanics* documents both the traditional techniques as well as the new methods for experimental

studies of materials components and structures The emergence of new materials and new disciplines together with the escalating use of on and off line computers for rapid data processing and the combined use of experimental and numerical techniques have greatly expanded the capabilities of experimental mechanics New exciting topics are included on biological materials MEMS and NEMS nanoindentation digital photomechanics photoacoustic characterization and atomic force microscopy in experimental solid mechanics Presenting complete instructions to various areas of experimental solid mechanics guidance to detailed expositions in important references and a description of state of the art applications in important technical areas this thoroughly revised and updated edition is an excellent reference to a widespread academic industrial and professional engineering audience

Solid Mechanics Anup Goel,A M Umbrajkaar,H J Sawant,2020-10-16

Solid mechanics is the branch of continuum mechanics that studies the behaviour of solid materials especially their deformation under the action of forces temperature changes phase changes and other external and internal agents Solid mechanics is fundamental for civil engineering mechanical engineering and aerospace engineering Solid mechanics extensively uses tensors to describe stresses strains and relation between them Solid mechanics examines the shear stress bending stress deformation and the failure of solid materials and structures Solid mechanics is a vast subject because of the wide range of solid materials available and their multiple applications The study of solid mechanics includes various methods to calculate the stresses and strains in structural members such as beams columns and shafts Solid mechanics is also known as Mechanics of solids or Mechanics of structures or Strength of materials Our hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge

Foundations of Solid Mechanics P. Karasudhi,1991 This book has been written with two purposes as a textbook for engineering courses and as a reference book for engineers and scientists The book is an outcome of several lecture courses These include lectures given to graduate students at the Asian Institute of Technology for several years a course on elasticity for University of Tokyo graduate students in the spring of 1979 and courses on elasticity viscoelasticity and finite deformation at the National University of Singapore from May to November 1985 In preparing this book I kept three objectives in mind first to provide sound fundamental knowledge of solid mechanics in the simplest language possible second to introduce effective analytical and numerical solution methods and third to impress on readers that the subject is beautiful and is accessible to those with only a standard mathematical background In order to meet those objectives the first chapter of the book is a review of mathematical foundations intended for anyone whose background is an elementary knowledge of differential calculus scalars and vectors and Newton's laws of motion Cartesian tensors are introduced carefully From then on only Cartesian tensors in the indicial notation with subscript as indices are used to derive and represent all theories

Nonlinear Solid Mechanics Adnan Ibrahimbegovic,2009-06-02 This book offers a recipe for constructing the numerical models for representing the complex nonlinear behavior of structures and their components

represented as deformable solid bodies Its appeal extends to those interested in linear problems of mechanics Theory and Practice of Solid Mechanics Thomas Dawson,2012-12-06 This book is intended for use by engineers and scientists who have a need for an introduction to advanced topics in solid mechanics It deals with modern concepts of continuum mechanics as well as with details of the classical theories of elasticity thermal elasticity viscous elasticity and plasticity of solids The book assumes no prior knowledge of the mechanics of solids and develops the subject entirely from first principles Rigorous derivations of governing equations are also followed by applications to a number of basic and practical problems Cartesian tensors are used throughout the book to express mathematical concepts in a clear and concise fashion Chapter I accordingly provides a discussion of this topic for those readers not already familiar with it This material is then followed by detailed discussions in Chapters 2 and 3 of the kinematics of continuum motion and the fundamental principles of mass conservation and momentum balance Unlike traditional treatments this material is first developed for the general large deformation case and only then restricted to small deformations for use in the usual engineering applications In this way the reader thus gets a fuller picture of the basic governing relations of solid mechanics **Classical And Computational Solid Mechanics** Pin Tong,2001-06-29 This invaluable book has been written for engineers and engineering scientists in a style that is readable precise concise and practical It gives first priority to the formulation of problems presenting the classical results as the gold standard and the numerical approach as a tool for obtaining solutions The classical part is a revision of the well known text *Foundations of Solid Mechanics* with a much expanded discussion on the theories of plasticity and large elastic deformation with finite strains The computational part is all new and is aimed at solving many major linear and nonlinear boundary value problems **Solid Mechanics** Clive L. Dym,Irving H. Shames,2013-04-05 *Solid Mechanics A Variational Approach* Augmented Edition presents a lucid and thoroughly developed approach to solid mechanics for students engaged in the study of elastic structures not seen in other texts currently on the market This work offers a clear and carefully prepared exposition of variational techniques as they are applied to solid mechanics Unlike other books in this field Dym and Shames treat all the necessary theory needed for the study of solid mechanics and include extensive applications Of particular note is the variational approach used in developing consistent structural theories and in obtaining exact and approximate solutions for many problems Based on both semester and year long courses taught to undergraduate seniors and graduate students this text is geared for programs in aeronautical civil and mechanical engineering and in engineering science The authors objective is two fold first to introduce the student to the theory of structures one and two dimensional as developed from the three dimensional theory of elasticity and second to introduce the student to the strength and utility of variational principles and methods including briefly making the connection to finite element methods A complete set of homework problems is included *An Introduction to the Mechanics of Solids* Robert R. Archer,1978 *Introduction to Solid Mechanics* Irving H. Shames,1996 Rather than a rote cookbook approach to problem solving this book offers a rigorous treatment of the

principles behind the practices asking students to harness their sound foundation of theory when solving problems A wealth of examples illustrate the meaning of the theory without simply offering recipes or maps for solving similar problems

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