

- 2.1 (a) no, shear forces present
 (b) no, system not homogeneous

3 (a) Could be, neglect contraction & assume normal force only.
 No, if true stress state with compression, tension and shear stresses are accounted for

2.2 Yes, S/E is intensive $S_2 = \lambda S_1$; $E_2 = \lambda E_1$
 $\frac{S_2}{E_2} = \frac{S_1}{E_1}$

2.3 $S = R_0 N \left(\frac{E}{E_0}\right)^{1/2} \left(\frac{V}{V_0}\right) \left(\frac{N}{N_0}\right)^{-3/2}$

$$\frac{1}{T} = \left(\frac{\partial S}{\partial E}\right)_{V,N} = R_0 N \frac{1}{2} \left(\frac{1}{E E_0}\right)^{1/2} \left(\frac{V}{V_0}\right) \left(\frac{N}{N_0}\right)^{-3/2}$$

$$\frac{P}{T} = \left(\frac{\partial S}{\partial V}\right)_{E,N} = \frac{R_0 N}{V_0} \left(\frac{E}{E_0}\right)^{1/2} \left(\frac{N}{N_0}\right)^{-3/2}$$

$$\frac{\mu}{T} = \left(\frac{\partial S}{\partial N}\right)_{E,V} = -\frac{1}{2} \frac{R_0 N^{-3/2}}{N_0} \left(\frac{E}{E_0}\right)^{1/2} V_0^{3/2}$$

Euler's Eq $S = \frac{1}{T} E + \frac{P}{T} V + \frac{\mu}{T} N$

$$S = \frac{1}{2} R_0 N \left(\frac{E}{E_0}\right)^{1/2} \left(\frac{V}{V_0}\right) \left(\frac{N}{N_0}\right)^{-3/2} + R_0 N \frac{V}{V_0} \left(\frac{E}{E_0}\right)^{1/2} \left(\frac{N}{N_0}\right)^{-3/2} - \frac{1}{2} R_0 N \left(\frac{E}{E_0}\right)^{1/2} \left(\frac{N_0}{N}\right)^{3/2}$$

$$S = R_0 N \frac{V}{V_0} \left(\frac{E}{E_0}\right)^{1/2} \left(\frac{N}{N_0}\right)^{-3/2} \text{ which checks the original equation}$$

Panton Incompressible Flow Solutions

P. M. Gresho, R. L. Sani



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Incompressible Flow Ronald L. Panton, 2013-07-18 The most teachable book on incompressible flow now fully revised updated and expanded *Incompressible Flow* Fourth Edition is the updated and revised edition of Ronald Panton's classic text. It continues a respected tradition of providing the most comprehensive coverage of the subject in an exceptionally clear unified and carefully paced introduction to advanced concepts in fluid mechanics. Beginning with basic principles this Fourth Edition patiently develops the math and physics leading to major theories. Throughout the book provides a unified presentation of physics, mathematics, and engineering applications liberally supplemented with helpful exercises and example problems. Revised to reflect students' ready access to mathematical computer programs that have advanced features and are easy to use. *Incompressible Flow* Fourth Edition includes several more exact solutions of the Navier-Stokes equations. Classic style Fortran programs for the Hiemenz flow, the Psi-Omega method for entrance flow, and the laminar boundary layer program all revised into MATLAB. A new discussion of the global vorticity boundary restriction. A revised vorticity dynamics chapter with new examples including the ring line vortex and the Fraenkel-Norbury vortex solutions. A discussion of the different behaviors that occur in subsonic and supersonic steady flows. Additional emphasis on composite asymptotic expansions. *Incompressible Flow* Fourth Edition is the ideal coursebook for classes in fluid dynamics offered in mechanical, aerospace, and chemical engineering programs.

Elements Of Fluid Dynamics Guido Buresti, 2012-06-26 *Elements of Fluid Dynamics* is intended to be a basic textbook useful for undergraduate and graduate students in different fields of engineering as well as in physics and applied mathematics. The main objective of the book is to provide an introduction to fluid dynamics in a simultaneously rigorous and accessible way, and its approach follows the idea that both the generation mechanisms and the main features of the fluid dynamic loads can be satisfactorily understood only after the equations of fluid motion and all their physical and mathematical implications have been thoroughly assimilated. Therefore, the complete equations of motion of a compressible viscous fluid are first derived, and their physical and mathematical aspects are thoroughly discussed. Subsequently, the necessity of simplified treatments is highlighted, and a detailed analysis is made of the assumptions and range of applicability of the incompressible flow model, which is then adopted for most of the rest of the book. Furthermore, the role of the generation and dynamics of vorticity on the development of different flows is emphasized, as well as its influence on the characteristics, magnitude, and predictability of the fluid dynamic loads acting on moving bodies. The book is divided into two parts which differ in target and method of utilization. The first part contains the fundamentals of fluid dynamics that are essential for any student new to the subject. This part of the book is organized in a strictly sequential way, i.e., each chapter is assumed to be carefully read and studied before the next one is tackled, and its aim is to lead the reader in understanding the origin of the fluid dynamic forces on different types of bodies. The second part of the book is devoted to selected topics that may be of more specific interest to different students. In particular, some theoretical aspects of

incompressible flows are first analysed and classical applications of fluid dynamics such as the aerodynamics of airfoils wings and bluff bodies are then described The one dimensional treatment of compressible flows is finally considered together with its application to the study of the motion in ducts

Numerical Solution of Elliptic and Parabolic Partial Differential Equations with CD-ROM John Arthur Trangenstein,2013-04-18 For mathematicians and engineers interested in applying numerical methods to physical problems this book is ideal Numerical ideas are connected to accompanying software which is also available online By seeing the complete description of the methods in both theory and implementation students will more easily gain the knowledge needed to write their own application programs or develop new theory The book contains careful development of the mathematical tools needed for analysis of the numerical methods including elliptic regularity theory and approximation theory Variational crimes due to quadrature coordinate mappings domain approximation and boundary conditions are analyzed The claims are stated with full statement of the assumptions and conclusions and use subscripted constants which can be traced back to the origination particularly in the electronic version which can be found on the accompanying CD ROM

Variational Methods with Applications in Science and Engineering Kevin W. Cassel,2013-07-22 There is a resurgence of applications in which the calculus of variations has direct relevance In addition to application to solid mechanics and dynamics it is now being applied in a variety of numerical methods numerical grid generation modern physics various optimization settings and fluid dynamics Many applications such as nonlinear optimal control theory applied to continuous systems have only recently become tractable computationally with the advent of advanced algorithms and large computer systems This book reflects the strong connection between calculus of variations and the applications for which variational methods form the fundamental foundation The mathematical fundamentals of calculus of variations at least those necessary to pursue applications is rather compact and is contained in a single chapter of the book The majority of the text consists of applications of variational calculus for a variety of fields

Advances in Applied Mechanics ,1992-01-08

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Incompressible Flow and the Finite Element Method, Volume 2 P. M. Gresho,R. L. Sani,2000-06-22 This comprehensive two volume reference covers the application of the finite element method to incompressible flows in fluid mechanics addressing the theoretical background and the development of appropriate numerical methods applied to their solution Volume One provides extensive coverage of the prototypical fluid mechanics equation the advection diffusion equation For both this equation and the equations of principal interest the Navier Stokes equations covered in detail in Volume Two a discussion of both the continuous and discrete equations is presented as well as explanations of how to properly march the time dependent equations using smart implicit methods Boundary and initial conditions so important in applications are carefully described and discussed including well posedness The important role played by the pressure so confusing in the past is carefully explained The book explains and emphasizes consistency in six

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 Fiterman,B. Van Leer,1993 **Free Boundary Problems** J I Diaz,Juan Luis Vazquez,M A Herrero,Amable Linan,1995-04-04
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