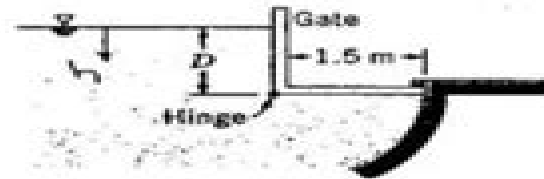


Given: Water rising on the left side of the gate causes it to open automatically. Neglect weight of gate.

Find: Depth D above the hinge at which the gate begins to open.



Solution:

Basic equations: $\frac{dp}{dy} = \rho g$; $\sum M_o = 0$

Computing equations: $F_c = p_c A$; $\bar{y} = y_c + \frac{I_{xc}}{A \bar{y}}$; $I_{xc} = \frac{b y^3}{12}$

Assumptions: (1) static liquid (2) $p = \text{constant}$
 (3) p acts at free surface and on outside of gate
 (4) no resisting moment in hinge

For an integrating $dp = \rho g dy$, we obtain $p = \rho g y$
 The free body diagram of the gate is as shown.



F_c is resultant of distributed force or uniform force
 F_c is resultant of distributed force or uniform force

Let width of gate be b

$$F_1 = p_1 A_1 = \rho g y_1 b y_1 = \frac{1}{2} \rho g b y_1^2 = \frac{1}{2} \rho g b y_1^2$$

$$F_2 = p_2 A_2 = \rho g y_2 b y_2 = \frac{1}{2} \rho g b y_2^2 = \frac{1}{2} \rho g b y_2^2$$

$$F_3 = p_3 A_3 = \rho g h_3 b = \rho g b h_3$$

Since the pressure is uniform over the horizontal surface, the force F_3 acts at the centroid of the surface, i.e. $\bar{y}_3 = \frac{1}{2} h_3$

For summing moments about the hinge

$$\sum M_o = 0 = F_1 \bar{y}_1 - F_2 (\bar{y}_2 - h_1) - F_3 (\bar{y}_3 - \frac{1}{2} h_3)$$

$$\therefore \frac{1}{2} \rho g b y_1^2 = 0$$

$$y = \sqrt{3} h = \sqrt{3} \cdot 1.5 \text{ m} = 2.60 \text{ m}$$

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**D. Emerson, P. Fox, N. Satofuka, A.
Ecer, Jacques Periaux**



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Engineering Fluid Mechanics Solution Manual , *Fluid Mechanics for Engineers* Meinhard T. Schobeiri, 2010-03-27

The contents of this book covers the material required in the Fluid Mechanics Graduate Core Course MEEN 621 and in Advanced Fluid Mechanics a Ph D level elective course MEEN 622 both of which I have been teaching at Texas A M University for the past two decades While there are numerous undergraduate fluid mechanics texts on the market for engineering students and instructors to choose from there are only limited texts that comprehensively address the particular needs of graduate engineering fluid mechanics courses To complement the lecture materials the instructors more often recommend several texts each of which treats special topics of fluid mechanics This circumstance and the need to have a textbook that covers the materials needed in the above courses gave the impetus to provide the graduate engineering community with a coherent textbook that comprehensively addresses their needs for an advanced fluid mechanics text Although this text book is primarily aimed at mechanical engineering students it is equally suitable for aerospace engineering civil engineering other engineering disciplines and especially those practicing professionals who perform CFD simulation on a routine basis and would like to know more about the underlying physics of the commercial codes they use Furthermore it is suitable for self study provided that the reader has a sufficient knowledge of calculus and differential equations In the past because of the lack of advanced computational capability the subject of fluid mechanics was artificially subdivided into inviscid viscous laminar turbulent incompressible compressible subsonic supersonic and hypersonic flows *Engineering Fluid Mechanics* , **Fluid Mechanics Through Problems** R. J. Garde, 2006 This Is An Outcome Of Authors Over Thirty Years Of Teaching Fluid Mechanics To Undergraduate And Postgraduate Students The Book Is Written With The Purpose That Through This Book Student Should Appreciate The Strength And Limitations Of The Theory And Also Its Potential For Application In Solving A Variety Of Engineering Problems Of Practical Importance It Makes Available To The Students Appearing For Diploma And Undergraduate Courses In Civil Chemical And Mechanical Engineering A Book Which Briefly Introduces The Necessary Theory Followed By A Set Of Descriptive Objective Questions In Seventeen Chapters The Book Covers The Broad Areas Of Fluid Properties Kinematics Dynamics Dimensional Analysis Laminar Flow Boundary Layer Theory Turbulent Flow Forces On Immersed Bodies Open Channel Flow Compressible And Unsteady Flows And Pumps And Turbines **Fluid Mechanics** Franz Durst, 2008-09-01 Fluid mechanics embraces engineering science and medicine This book s logical organization begins with an introductory chapter summarizing the history of fluid mechanics and then moves on to the essential mathematics and physics needed to understand and work in fluid mechanics Analytical treatments are based on the Navier Stokes equations The book also fully addresses the numerical and experimental methods applied to flows This text is specifically written to meet the needs of students in engineering and science Overall readers get a sound introduction to fluid mechanics **EBOOK: Fluid Mechanics Fundamentals and Applications (SI units)** Yunus

Cengel, John Cimbala, 2013-10-16 Fluid Mechanics Fundamentals and Applications is written for the first fluid mechanics course for undergraduate engineering students with sufficient material for a two course sequence This Third Edition in SI Units has the same objectives and goals as previous editions Communicates directly with tomorrow's engineers in a simple yet precise manner Covers the basic principles and equations of fluid mechanics in the context of numerous and diverse real world engineering examples and applications Helps students develop an intuitive understanding of fluid mechanics by emphasizing the physical underpinning of processes and by utilizing numerous informative figures photographs and other visual aids to reinforce the basic concepts Encourages creative thinking interest and enthusiasm for fluid mechanics New to this edition All figures and photographs are enhanced by a full color treatment New photographs for conveying practical real life applications of materials have been added throughout the book New Application Spotlights have been added to the end of selected chapters to introduce industrial applications and exciting research projects being conducted by leaders in the field about material presented in the chapter New sections on Biofluids have been added to Chapters 8 and 9 Addition of Fundamentals of Engineering FE exam type problems to help students prepare for Professional Engineering exams

Introduction to Engineering Fluid Mechanics Marcel Escudier, 2017 Fluid mechanics concerns the way fluids flow in response to imposed stresses This textbook includes numerous examples of practical applications of the theoretical ideas such as calculations of the thrust of a jet engine the power output of a gas turbine and forces created by liquid flow through a pipe bend or junction **Get Punjab ETT Teacher Important Questions. Start preparation now!**

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Rao, 2005-11-14 This 2006 book is intended for undergraduate courses in dynamics The work is a unique blend of conceptual theoretical and practical aspects of dynamics generally not found in dynamics books at the undergraduate level In particular in this book the concepts are developed in a highly rigorous manner and are applied to examples using a step by step approach that is completely consistent with the theory In addition for clarity the notation used to develop the theory is identical to that used to solve example problems The result of this approach is that a student is able to see clearly the connection between the theory and the application of theory to example problems While the material is not new instructors and their students will appreciate the highly pedagogical approach that aids in the mastery and retention of concepts The approach used in this book teaches a student to develop a systematic approach to problem solving **Modeling, Mesh**

Generation, and Adaptive Numerical Methods for Partial Differential Equations Ivo Babuska, 1995-07-14 With

considerations such as complex dimensional geometries and nonlinearity the computational solution of partial differential systems has become so involved that it is important to automate decisions that have been normally left to the individual This book covers such decisions 1 mesh generation with links to the software generating the domain geometry 2 solution accuracy and reliability with mesh selection linked to solution generation This book is suited for mathematicians computer scientists and engineers and is intended to encourage interdisciplinary interaction between the diverse groups *Advances in Fluid Mechanics* X C. A. Brebbia, S. Hernández, M. Rahman, 2014-07-01 Containing the proceedings of the tenth International Conference on Advances in Fluid Mechanics it follows the success of all previous conferences in the series the first of which took place in 1996 The field of fluid mechanics is vast and has numerous diverse applications This book covers a wide range of topics including basic formulations and their computer modelling as well as the relationship between experimental and analytical results The emphasis is on new applications and research currently in progress Topics covered include Computational methods Hydrodynamics Fluid structure interaction Multiphase flow Bio fluids Electronic components Environmental fluid mechanics Heat and mass transfer Industrial applications Energy systems Nano and micro fluids Turbulent flow River hydraulics Combustion problems Jets Fluidics Bubble and drop dynamics Computational Mechanics Zhenhan Yao, M. W. Yuan, Wanxie Zhong, 2004 Data-Driven Fluid Mechanics Miguel A. Mendez, Andrea Ianiro, Bernd R. Noack, Steven L. Brunton, 2023-02-02 Data driven methods have become an essential part of the methodological portfolio of fluid dynamicists motivating students and practitioners to gather practical knowledge from a diverse range of disciplines These fields include computer science statistics optimization signal processing pattern recognition nonlinear dynamics and control Fluid mechanics is historically a big data field and offers a fertile ground for developing and applying data driven methods while also providing valuable shortcuts constraints and interpretations based on its powerful connections to basic physics Thus hybrid approaches that leverage both methods based on data as well as fundamental principles are the focus of active and exciting research Originating from a one week lecture series course by the von Karman Institute for Fluid Dynamics this book presents an overview and a pedagogical treatment of some of the data driven and machine learning tools that are leading research advancements in model order reduction system identification flow control and data driven turbulence closures 5000 MCQ: Civil Engineering For UPSC GATE/PSUs Exams R P Meena, 5000 MCQ Civil Engineering For UPSC GATE PSUs Exams The first Edition of Civil Engineering Contains nearly 5000 MCQs which focuses in depth understanding of subjects at basic and Advanced level which has been segregated topic wise to disseminate all kind of exposure to Students in terms of quick learning and deep preparation The topic wise segregation has been done to Align with contemporary competitive examination Pattern Attempt has been made to bring out all kind of probable competitive questions for the aspirants preparing for GATE PSUs and other exams The content of this book ensures threshold Level of learning and wide range of practice questions which is very much essential to boost the exam time confidence level and

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Parallel Computational Fluid Dynamics '97 D. Emerson,P. Fox,N. Satofuka,A. Ecer,Jacques Periaux,1998-04-17 Computational Fluid Dynamics CFD is a discipline that has always been in the vanguard of the exploitation of emerging and developing technologies Advances in both algorithms and computers have rapidly been absorbed by the CFD community in its quest for more accurate simulations and reductions in the time to solution Within this context parallel computing has played an increasingly important role Moreover the uptake of parallel computing has brought the CFD community into ever closer contact with hardware vendors and computer scientists The multidisciplinary subject of parallel CFD and its rapidly evolving nature in terms of hardware and software requires a regular international meeting of this nature to keep abreast of the most recent developments Parallel CFD 97 is part of an annual conference series dedicated to the discussion of recent developments and applications of parallel computing in the field of CFD and related disciplines This was the 9th in the series and since the inaugural conference in 1989 many new developments and technologies have emerged The intervening years have also proved to be extremely volatile for many hardware vendors and a number of companies appeared and then disappeared However the belief that parallel computing is the only way forward has remained undiminished Moreover the increasing reliability and acceptance of parallel computers has seen many commercial companies now offering parallel versions of their codes many developed within the EC funded EUROPORT activity but generally for more modest numbers of processors It is clear that industry has not moved to large scale parallel systems but it has shown a keen interest in more modest parallel systems recognising that parallel computing will play an important role in the future This book forms the proceedings of the CFD 97 conference which was organised by the the Computational Engineering Group at Daresbury Laboratory and held in Manchester England on May 19 21 1997 The sessions involved papers on many diverse subjects including turbulence reactive flows adaptive schemes unsteady flows unstructured mesh applications industrial applications developments in software tools and environments climate modelling parallel algorithms evaluation of computer architectures and a special session devoted to parallel CFD at the AEREA

research centres This year's conference like its predecessors saw a continued improvement in both the quantity and quality of contributed papers Since the conference series began many significant milestones have been achieved For example in 1994 Massively Parallel Processing MPP became a reality with the advent of Cray T3D This of course has brought with it the new challenge of scalability for both algorithms and architectures In the 12 months since the 1996 conference two more major milestones were achieved microprocessors with a peak performance of a Gflop/s became available and the world's first Tflop/s calculation was performed In the 1991 proceedings the editors indicated that a Tflop/s computer was likely to be available in the latter half of this decade On December 4th 1996 Intel achieved this breakthrough on the Linpack benchmark using 7 264 200MHz Pentium Pro microprocessors as part of the ASCI Red project With the developments in MPP the rapid rise of SMP architectures and advances in PC technology the future for parallel CFD looks both promising and challenging

Finite Elements A. J. Baker, 2012-08-02 Approaches computational engineering sciences from the perspective of engineering applications Uniting theory with hands on computer practice this book gives readers a firm appreciation of the error mechanisms and control that underlie discrete approximation implementations in the engineering sciences Key features Illustrative examples include heat conduction structural mechanics mechanical vibrations heat transfer with convection and radiation fluid mechanics and heat and mass transport Takes a cross discipline continuum mechanics viewpoint Includes Matlab toolbox and m data files on a companion website immediately enabling hands on computing in all covered disciplines Website also features eight topical lectures from the author's own academic courses It provides a holistic view of the topic from covering the different engineering problems that can be solved using finite element to how each particular method can be implemented on a computer Computational aspects of the method are provided on a companion website facilitating engineering implementation in an easy way [Finite Analytic Method in Flows and Heat Transfer](#) R. A. Bernatz, 2000-09-12 This book gives a systematic coverage of knowledge needed for numerical computation of fluid flows and heat transfer in five parts Part One gives a brief history of computational machinery and a presentation of the governing equations for fluid flows and heat transfer Part Two is devoted to the principles of the finite analytic method and its development for various types of equations Part Three concentrates on methods of coordinate generation for applications on complex domains Part Four presents various schemes for accomplishing the task in Part Three Examples of a wide variety of problems are provided in Part Five **The Finite Element Method: Solid mechanics** O. C. Zienkiewicz, Robert Leroy Taylor, 2000

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