

Chapter 2 : Pressure and Head

- 2.1 a. From eqn. 2.4 : $p_2 - p_1 = -\rho g(z_2 - z_1)$ and taking sea level as datum point 1, then :
 $p_1 = 0 \text{ Nm}^{-2}$, $\rho = 1002 \text{ kgm}^{-3}$, $g = 9.81 \text{ ms}^{-2}$, $z_2 = -2000 \text{ m}$ and $z_1 = 0 \text{ m}$.
 $\Rightarrow p_2 - 0 = -1002 \times 9.81 \times (-2000 - 0)$, $\therefore p_2 = 19.66 \text{ MNm}^{-2}$

- b. From eqn. 1.12, we know $K = \rho \frac{dp}{dz}$ and from eqn. 2.17, $p = \rho g z$ giving :

$\rho^2 g dz = K dp$. If it is assumed that z is measured from the surface and is negative as depth increases, and that K is constant over small pressure ranges, we can then integrate

$$\int_{z_1}^{z_2} \frac{g}{K} dz = - \int_{p_1}^{p_2} \frac{1}{\rho^2} dp \Rightarrow \left[\frac{gz}{K} \right]_{z_1}^{z_2} = \left[\frac{1}{\rho} \right]_{p_1}^{p_2}$$

Since we know that $z_1 = 0 \text{ m}$ then, $\frac{gz}{K} = \frac{1}{\rho_2} - \frac{1}{\rho_1} \Rightarrow p_2 = \frac{K\rho_1}{\rho_1 g z + K}$

Integrating, NB $\int \frac{1}{1+ax} dx = \frac{1}{a} \ln(1+ax)$

$$\Rightarrow p_2 - p_1 = -\rho g \frac{K}{\rho_1 g} \ln \left[1 + \frac{\rho_1 g z}{K} \right]_{z=0}^{z_2} \Rightarrow p_2 - p_1 = -K \ln \left(1 + \frac{\rho_1 g z_2}{K} \right)$$

We know that $p_1 = 0 \text{ Nm}^{-2}$, $K = 2.05 \times 10^9 \text{ Nm}^{-2}$, $\rho_1 = 1002 \text{ kgm}^{-3}$ and $z_2 = -2000 \text{ m}$, hence :

$$p_2 - 0 = -2.05 \times 10^9 \ln \left[1 + \frac{1002 \times 9.81 \times (-2000)}{2.05 \times 10^9} \right] \therefore p_2 = 19.75 \text{ MNm}^{-2}$$

- 2.2 a. From eqn. 2.4 : $p_2 - p_1 = -\rho g(z_2 - z_1)$. Taking the free surface as datum point 1 then, $p_1 = 0 \text{ Nm}^{-2}$, $\rho = 1000 \text{ kgm}^{-3}$, $g = 9.81 \text{ ms}^{-2}$, $z_2 = -12 \text{ m}$ and $z_1 = 0 \text{ m}$.
 $\therefore p_2 = 117.72 \text{ kNm}^{-2}$
- b. From eqn. 2.16 : $p = \rho g h + p_{\text{atm}}$, ie Absolute pressure = Gauge pressure + Atmospheric pressure. Here, gauge pressure = 117720 Nm^{-2} and atmospheric pressure = 101000 Nm^{-2} , \therefore **Absolute pressure = 218.72 kNm^{-2}**

- 2.3 a. Specific gravity of oil = $\frac{\rho_{\text{oil}}}{\rho_{\text{H}_2\text{O}}} \Rightarrow 0.8 = \frac{\rho_{\text{oil}}}{1000} \Rightarrow \rho_{\text{oil}} = 800 \text{ kgm}^{-3}$

From eqn. 2.17 : $p = \rho g h$, where $p = 120 \times 10^3 \text{ Nm}^{-2}$, $\rho = 800 \text{ kgm}^{-3}$, $g = 9.81 \text{ ms}^{-2}$, $\Rightarrow 120 \times 10^3 = 800 \times 9.81 \times h$, $\therefore h = 15.3 \text{ m}$

- b. As before, $p = 120 \times 10^3 \text{ Nm}^{-2}$ and $g = 9.81 \text{ ms}^{-2}$, however, $\rho = 1000 \text{ kgm}^{-3}$.

From eqn. 2.17 : $p = \rho g h \Rightarrow 120 \times 10^3 = 1000 \times 9.81 \times h$

$\therefore h = 12.2 \text{ m}$

- 2.4 We know that $1 \text{ bar} = 1 \times 10^5 \text{ Nm}^{-2}$.

From eqn. 2.4 : $p_2 - p_1 = -\rho g(z_2 - z_1)$. Taking the free surface as datum point 1 :
 $p_2 = 1 \times 10^5 \text{ Nm}^{-2}$, $p_1 = 0 \text{ Nm}^{-2}$, $\rho = 600 \text{ kgm}^{-3}$, $g = 9.81 \text{ ms}^{-2}$ and $z_1 = 0 \text{ m}$.

Douglas Fluid Mechanics 5th Edition Solution

**Pavel Novak, Vincent Guinot, Alan
Jeffrey, Dominic E. Reeve**



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Fluid Mechanics John F. Douglas, 2005 Written for courses in Fluid Mechanics in Civil and Mechanical Engineering this text covers the fundamental principles of fluid mechanics as well as specialist topics in more depth The fundamental material relates to all engineering disciplines that require fluid mechanics As in previous editions this book demonstrates the link between theory and practice with excellent examples and computer programs The programs help students perform 3 types of calculations relatively simple calculations calculations designed to provide solutions for steady state system operation and unsteady flow simulations

Geomechanics, Fluid Dynamics and Well Testing, Applied to Naturally Fractured Carbonate Reservoirs Nelson Enrique Barros Galvis, 2018-05-02 This thesis presents an important step towards a deeper understanding of naturally fractured carbonate reservoirs NFCRs It demonstrates the various kinds of discontinuities using geological evidence mathematical kinematics model and computed tomography and uses this as a basis for proposing a new classification for NFCRs Additionally this study takes advantage of rock mechanics theory to illustrate how natural fractures can collapse due to fluid flow and pressure changes in the fractured media The explanations and mathematical modeling developed in this dissertation can be used as diagnostic tools to predict fluid velocity fluid flow tectonic fracture collapse pressure behavior during reservoir depleting considering stress sensitive and non stress sensitive with nonlinear terms in the diffusivity equation applied to NFCRs Furthermore the book presents the description of real reservoirs with their field data as the principal goal in the mathematical description of the realistic phenomenology of NFCRs

Finite Elements for Engineers with ANSYS Applications Mohamed Gadala, 2020-07-09 Covering theory and practical industry usage of the finite element method this highly illustrated step by step approach thoroughly introduces methods using ANSYS

Practical Hydraulics Melvyn Kay, 1998-10-01 Practical Hydraulics approaches the subject from basic principles It is clearly written and includes many illustrations and examples It will appeal to a wide range of professionals and students needing an introduction to the subject

Basic Hydrodynamics A. C. Thompson, 2013-09-17 Basic Hydrodynamics explores the application of computers to problem solving involved in fluid flow This book contains 5 chapters that cover the use of BASIC programming language in hydrodynamic problems and some programs with graphic output as well as some simple finite difference finite element and boundary element programs After a brief introduction to BASIC programming this book goes discussing the fundamentals of potential flow theory that will be used to calculate flows which can be regarded as frictionless These topics are followed by a presentation of some analytical expressions for potential flows Chapter 3 outlines the computer based methods for solving problems within these flows while Chapter 4 highlights some potential flow methods to the solution of groundwater flows Exact solutions are also provided for comparison with the computer methods Lastly Chapter 5 considers free surface flows such as linear waves and flows from jets This work will be of value to engineers designers and computer programmers and scientists who are interested in computer application to hydrodynamics field

Catalogue of Books Arranged by Subjects Library Board of Western Australia, 1966 *Applications of Energy*

Harvesting Technologies in Buildings Joseph W. Matiko, Stephen Beeby, 2017-01-31 This timely new resource explores the available energy sources within commercial and residential buildings and the available technologies for energy harvesting. Energy harvesting within built environments is presented using strong research and commercial examples. This book includes clear and concise case studies on solar cell powered sensor nodes for emotion monitoring systems in ambient assistive living environments and inductive RF power transfers. Thermoelectric energy harvesting and power management circuit design, airflow and vibration energy harvesting is also explored. The book concludes with a look at the future of energy harvesting in buildings.

Hydraulic Modelling: An Introduction Pavel Novak, Vincent Guinot, Alan Jeffrey, Dominic E. Reeve, 2018-10-24 Modelling forms a vital part of all engineering design yet many hydraulic engineers are not fully aware of the assumptions they make. These assumptions can have important consequences when choosing the best model to inform design decisions. Considering the advantages and limitations of both physical and mathematical methods, this book will help you identify the most appropriate form of analysis for the hydraulic engineering application in question. All models require the knowledge of their background, good data and careful interpretation, and so this book also provides guidance on the range of accuracy to be expected of the model simulations and how they should be related to the prototype. Applications to models include open channel systems, closed conduit flows, storm drainage systems, estuaries, coastal and nearshore structures, hydraulic structures. This is an invaluable guide for students and professionals.

Spectral Methods in Fluid Dynamics Claudio Canuto, M. Yousuff Hussaini, Alfio Quarteroni, Thomas A., Jr. Zang, 2012-12-06 This is a book about spectral methods for partial differential equations: when to use them, how to implement them, and what can be learned from their use. Spectral methods have evolved from rigorous theory to the computational side vigorously since the early 1970s, especially in computationally intensive applications. The more spectacular applications are in fluid dynamics. Some of the power of these methods is discussed here first in general terms, as examples of the methods have been covered in great detail later. The specifics covered in this book pay special attention to those algorithmic details which are essential to successful implementation of spectral methods. The focus is on algorithms for fluid dynamical problems in transition, turbulence, and aerodynamics. This book does not address specific applications in meteorology, partly because of the lack of experience of the authors in this field and partly because of the coverage provided by Haltiner and Williams (1980). The success of spectral methods in practical computations has led to an increasing interest in their theoretical aspects, especially since the mid 1970s. Although the theory does not yet cover the complete spectrum of applications, the analytical techniques which have been developed in recent years have facilitated the examination of an increasing number of problems of practical interest. In this book, we present a unified theory of the mathematical analysis of spectral methods and apply it to many of the algorithms in current use.

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services received Statistics on family planning services are limited to women who were able to conceive 3 years before the interview date Overall 79% of currently married nonsterile women reported using some type of family planning service during the previous 3 years There were no statistically significant differences between white 79% black 75% or Hispanic 77% wives or between the 2 income groups The 1982 survey questions were more comprehensive than those of earlier cycles of the survey The annual rate of visits for family planning services in 1982 was 1077 visits 1000 women Teenagers had the highest annual visit rate 1581 1000 of any age group for all sources of family planning services combined Visit rates declined sharply with age from 1447 at ages 15 24 to 479 at ages 35 44 Similar declines with age also were found in the visit rates for white and black women separately Nevertheless the annual visit rate for black women 1334 1000 was significantly higher than that for white women 1033 The highest overall visit rate was for black women 15 19 years of age 1867 1000 Nearly 2 3 of all family planning visits were to private medical sources Teenagers of all races had higher family planning service visit rates to clinics than to private medical sources as did black women age 15 24 White women age 20 and older had higher visit rates to private medical services than to clinics Never married women had higher visit rates to clinics than currently or formerly married women Data were also collected in 1982 on use of medical services for infertility by women who had difficulty in conceiving or carrying a pregnancy to term About 1 million ever married women had 1 or more infertility visits in the 12 months before the interview During the 3 years before interview about 1 9 million women had infertility visits For all ever married women as well as for white and black women separately infertility services were more likely to be secured from private medical sources than from clinics The survey design reliability of the estimates and the terms used are explained in the technical notes

Handbook of Computational Fluid Mechanics, 1996-03-25 This handbook covers computational fluid dynamics from fundamentals to applications This text provides a well documented critical survey of numerical methods for fluid mechanics and gives a state of the art description of computational fluid mechanics considering numerical analysis computer technology and visualization tools The chapters in this book are invaluable tools for reaching a deeper understanding of the problems associated with the calculation of fluid motion in various situations inviscid and viscous incompressible and compressible steady and unsteady laminar and turbulent flows as well as simple and complex geometries Each chapter includes a related bibliography Covers fundamentals and applications Provides a deeper understanding of the problems associated with the calculation of fluid motion

Water Resources in the Built Environment Colin A. Booth, Susanne M. Charlesworth, 2014-03-31 Water management is a key environmental issue in controlling of floods and reducing droughts This book provides analysis of the main issues offering solutions and describing good practice Water Resources for the Built Environment management issues and solutions develops an appreciation of the diverse complex and current themes of the water resources debate across the built environment urban development and management continuum The integration of physical and environmental sciences combined with social economic and political sciences provide a

unique resource useful to policy experts scientists engineers and subject enthusiasts By taking an interdisciplinary approach water resources issues and impacts on the built environment are presented in the inventive and strategic setting of considering the constraints of delivering potable water to an ever demanding society who at the same time are increasingly aware of living in an urban landscape where excessive surface water creates a flood threatened environment hence the need to portray a balance between too little vs too much This unique approach to the water resources debate presents a multifaceted collection of chapters that address the contemporary concomitant issues of water shortage and urban flooding and proffers solutions specifically for the built environment The book is structured into three parts the first part Sections 2 3 and 4 addresses management issues and solutions to minimise water shortages and provide water security for society whilst the second part of the book Sections 5 and 6 addresses management issues and solutions to control excessive rainfall and minimise flooding impacts The third part Section 7 contextualises the issues of the earlier sections within international case studies from the developing world [The Cumulative Book Index](#) ,1997 A world list of books in the English language

[Ingenium](#) Mark Denny,2007-05-30 Whether you dream of making a better mousetrap or launching pumpkins into the stratosphere Ingenium will tickle your fancy

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