



QUAID-E-AZAM UNIVERSITY
ISLAMABAD

M.Sc Annual Examinations, Part-II, 2019

September 24, 2019

Roll No: _____

Max Marks: 100

Pass Marks: 40

Time Allowed: 2 Hours

SUBJECT: MATHEMATICS

PAPER: FLUID MECHANICS (MA-471) (505)

Note: Attempt any FIVE Questions. All questions carry equal marks.

Q 1: (20)
What is fluid deformation? Show that Shear Stress is related to the rate of angular deformation through the fluid viscosity.

Q 2: (20)
Prove that the sum of three heads, means to say pressure head, velocity head and elevation head remains constant

$$\frac{V^2}{2g} + \frac{p}{\rho g} + Z = 0$$

Q 3: (20)

The Stream function for certain incompressible flow field is given by:

$$\psi = -U_e \sin \theta + \frac{q}{2\pi} \theta$$

Find the points where $[V] = 0$ and show that $\psi = 0$ there.

Q 4: (20)

Consider the flow field given by $\psi = 9x^2 - 9y^2$

- Show that the flow is irrotational
- Determine the velocity potential for this flow
- The line of constant ϕ and ψ are orthogonal

Q 5: (20)

Derive the law of conservation of mass for cylindrical coordinate system

Q 6: (20)

- Derive the equations of surfaces perpendicular to the stream lines.
- If

$$U = -\frac{Cy}{r^2}, \quad V = \frac{Cx}{r^2}, \quad w = 0$$

Find out the equation of surfaces perpendicular to stream lines.

Q 7: (20)

A velocity field

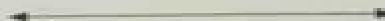
$$\vec{V} = u\vec{i} + v\vec{j} + w\vec{k} \text{ is given as}$$

$$u = x + 2y + 3z + 4t^2$$

$$v = xyz + t, w = (x + y)z^2 + 2t$$

Determine:

- The local acceleration
- The convective acceleration
- Total acceleration at $P(1,1,1)$.



Fluid Mechanics Past Paper Solution

Meinhard T. Schobeiri



Fluid Mechanic Past Paper Solution:

Computational Fluid Mechanics and Heat Transfer Dale Anderson, John C. Tannehill, Richard H. Pletcher, Ramakanth Munipalli, Vijaya Shankar, 2020-12-17 Computational Fluid Mechanics and Heat Transfer Fourth Edition is a fully updated version of the classic text on finite difference and finite volume computational methods Divided into two parts the text covers essential concepts in the first part and then moves on to fluids equations in the second Designed as a valuable resource for practitioners and students new examples and homework problems have been added to further enhance the student s understanding of the fundamentals and applications Provides a thoroughly updated presentation of CFD and computational heat transfer Covers more material than other texts organized for classroom instruction and self study Presents a wide range of computation strategies for fluid flow and heat transfer Includes new sections on finite element methods computational heat transfer and multiphase flows Features a full Solutions Manual and Figure Slides for classroom projection Written as an introductory text for advanced undergraduates and first year graduate students the new edition provides the background necessary for solving complex problems in fluid mechanics and heat transfer Applied Mechanics Reviews ,1974

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Computational Fluid Mechanics and Heat Transfer, Second Edition Richard H. Pletcher, John C. Tannehill, Dale Anderson, 1997-04-01 This comprehensive text provides basic fundamentals of computational theory and computational methods The book is divided into two parts The first part covers material fundamental to the understanding and application of finite difference methods The second part illustrates the use of such methods in solving different types of complex problems encountered in fluid mechanics and heat transfer The book is replete with worked examples and problems provided at the end of each chapter **GATE Computer Science and Information Technology** Nagpal D.P., 2009 This book has

been prepared to meet the requirements of students preparing for GATE examination in Computer Science Engineering discipline as per the prescribed

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Recent Numerical Advances in Fluid Mechanics Omer San, 2020-07-03 In recent decades the field of computational fluid dynamics has made significant advances in enabling advanced computing architectures to understand many phenomena in biological geophysical and engineering fluid flows Almost all research areas in fluids use numerical methods at various complexities from molecular to continuum descriptions from laminar to turbulent regimes from low speed to hypersonic from stencil based computations to meshless approaches from local basis functions to global expansions as well as from first order approximation to high order with spectral accuracy Many successful efforts have been put forth in dynamic adaptation strategies e g adaptive mesh refinement and multiresolution representation approaches Furthermore with recent advances in artificial intelligence and heterogeneous computing the broader fluids community has gained the momentum to revisit and investigate such practices This Special Issue containing a collection of 13 papers brings together researchers to address recent numerical advances in fluid mechanics

The Handbook of Fluid Dynamics Richard W. Johnson, 1998-08-18 Providing professionals in the field with a comprehensive guide and resource this book balances three traditional areas of fluid mechanics theoretical computational and experimental and expounds on basic science and engineering techniques Each chapter discusses the primary issues related to the topic in question outlines expert approaches and supplies references for further information

Computational Fluid Mechanics and Heat Transfer, Third Edition Richard H. Pletcher, John C. Tannehill, Dale Anderson, 2012-08-30 Thoroughly updated to include the latest developments in the field this classic text on finite difference and finite volume computational methods maintains the fundamental concepts covered in the first edition As an introductory text for advanced undergraduates and first year graduate students Computational Fluid Mechanics and Heat Transfer Third Edition provides the background necessary for solving complex problems in fluid mechanics and heat transfer Divided into two parts the book first lays the groundwork for the essential concepts preceding the fluids equations in the second part It includes expanded coverage of turbulence and large eddy simulation LES and additional material included on detached eddy simulation DES and direct numerical simulation DNS Designed as a valuable resource for practitioners and students new homework problems have been added to further enhance the student's understanding of the fundamentals and applications

Encyclopedia of Fluid Mechanics: Aerodynamics and compressible flows, 1989 *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 *AIAA 26th Aerospace Sciences Meeting* ,1988 **Scientific and Technical Aerospace Reports** ,1987 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **Design of Reinforced Concrete Structures** Alan Williams,2004 Here is a comprehensive guide and reference to assist civil engineers preparing for the Structural Engineer Examination It offers 350 pages of text and 70 design problems with complete step by step solutions Topics covered Materials for Reinforced Concrete Limit State Principles Flexure of Reinforced Concrete Beams Shear and Torsion of Concrete Beams Bond and Anchorage Design of Reinforced Concrete Columns Design of Reinforced Concrete Slabs and Footings Retaining Walls and Piled Foundations An index is provided **Fluid Mechanics and the Environment: Dynamical Approaches** John L. Lumley,2008-01-11 The papers in this volume were written by his students and colleagues to honor Sidney Leibovich Samuel B Eckert Professor in the Sibley School of Mechanical and Aerospace Engineering at Cornell University in commemoration of his 60th birthday 2 April 1999 They were presented at a symposium held at Cornell 23 and 24 August 1999 Sid obtained his Bachelor of Science degree with honors from The California Institute of Technology in 1961 graduating first in his class He came to Cornell to work with Geoffrey Ludford on Magnetohydrodynamics and obtained his Ph D in 1965 in the Department of Theoretical and Applied Mechanics He spent a year at University College London as a NATO Postdoctoral Fellow and returned to Cornell as an Assistant Professor He has been here ever since and is currently Director of the Sibley School Since returning to Cornell Sid has concentrated on rotating fluids and n linear waves in various combinations and applications producing some 3 2 pers a year with an applied mathematical bent In particular this interest led to both Langmuir circulation and vortex breakdown two areas in which Sid has had enormous influence and both of course examples of rotating fluids interacting with waves It was impossible to work in this area without being distracted by

the study of the nonlinear dispersive and dissipative waves themselves and Sid has made substantial contributions in this area Paper ,1986 **Rheology Abstracts** ,1981 **Collected Papers in Honor of Yoshihiro Shibata** Tohru Ozawa,2022-11-30 Yoshihiro Shibata has made many significant contributions to the area of mathematical fluid mechanics over the course of his illustrious career including landmark work on the Navier Stokes equations The papers collected here on the occasion of his 70th birthday are written by world renowned researchers and celebrate his decades of outstanding achievements

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she describes baroka and answers his questions about her suitor in such a way as to offend baroka baroka throws his wrestler and sidi celebrates baroka s victory the men begin to arm wrestle and baroka resumes his line of questioning about sidi s suitor

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