

4. a) Prove that most economical trapezoidal section of channel has its sides inclined to horizontal with 60° . 7
- b) A rectangular concrete channel 4 m wide has a slope of 9×10^{-4} . It carries a flow of $18 \text{ m}^3/\text{s}$ and has a depth of 2.3m at one section. Use direct step method and taking one step compute the depth at 300 m downstream. Take $n=0.012$. What is the type of surface curve obtained? 8
5. a) Discuss on classification of GVF profiles on the basis of channel slope and the magnitude of depth in relation to normal depth and critical depth. 7
- b) Define Conveyance factor and Section factor. Derive the expression for condition for maximum discharge in economical circular section. Use Manning's equation. 8
6. a) Describe in short about hydraulic jump and its application in Civil Engineering. Calculate the sequent depth, if the initial Froude number (Fr_1) is 6 and loss of energy due to hydraulic jump is 3m. 7
- b) A discharge of $16.0 \text{ m}^3/\text{sec}$ flows with a depth of 2.0m in a rectangular channel 4.0m wide. At a downstream section the width is reduced to 3.50m and the channel bed is raised by ΔZ . Analyze the water surface elevations in the transitions when; 8
 - i. $\Delta Z = 0.20 \text{ m}$
 - ii. $\Delta Z = 0.35 \text{ m}$
7. Write short notes on: (Any two) 2×5
 - a) Formation of river beds based on the shear stress.
 - b) Distorted model
 - c) Laminar and Turbulent flow

Hydraulics Question Paper

YCT Expert Team



Hydraulics Question Paper:

Hydraulics and Pneumatics Controls Shanmuga Sundaram, 2006 For B E B Tech students of Anna and Other Technical Universities of India *OIL HYDRAULICS AND PNEUMATICS* , 2023-11-22 This edition of the book is based on the syllabus of OIL HYDRAULICS AND PNEUMATICS for the final year engineering students of all disciplines of Gujarat Technological University Gujarat Each chapter contains a number of solved and unsolved problems to imbue self confidence in the students Diagrams are prepared in accordance with ISI For dimensioning the latest method is followed and SI Units are used

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1961 Photos *Committee on Tidal Hydraulics Report* ,1950 **Civil Engineering Solved Papers GATE 2022** , 1 The book is prepared for the preparation for the GATE entrance 2 The practice Package deals with Civil Engineering 3 Entire syllabus is divided into chapters 4 Solved Papers are given from 2021 to 2000 understand the pattern and build concept 5 3 Mock tests are given for Self practice 6 Extensive coverage of Mathematics and General Aptitude are given 7 Questions in the chapters are divided according to marks requirements 1 marks and 2 marks 8 This book uses well detailed and authentic answers Get the complete assistance with GATE Chapterwise Solved Paper Series that has been developed for aspirants who are going to appear for the upcoming GATE Entrances The Book Chapterwise Previous Years Solved Papers 2021 2000 GATE Mechanical Engineering has been prepared under the great observation that help aspirants in cracking the GATE Exams As the name of the book suggests it covers detailed solutions of every question in a Chapterwise manner Each chapter provides a detailed analysis of previous years exam pattern Chapterwise Solutions are given Engineering Mathematics and General Aptitude 3 Mock tests are given for Self practice To get well versed with the exam pattern Level of questions asked conceptual clarity and greater focus on the preparation This book proves to be a must have resource in the solving and practicing previous years GATE Papers

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need for civil engineers of all specialties to recognize and embrace the growing interconnectedness of the global infrastructure economy society and the need to work for more sustainable life cycle oriented solutions While embracing the past and the present the papers collected here clearly have an eye on the future needs of ASCE and the civil engineering profession Some Detroit Hydraulic Experiments Gardner Stewart Williams, George Harrison Fenkell, Clarence William Hubbell, 1902 Aquifer Hydraulics Vedat Batu, 1998-02-27 Praise for Aquifer Hydraulics Very easy to understand and follow even for complicated applications this book will be a significant addition to the library of individuals who are practicing in the field of geohydrology Professor M M Aral Georgia Institute of Technology A valuable source of information for every student and practitioner of quantitative hydrogeology I commend Dr Batu for the thorough research and dedicated effort that went into the preparation of this book Stavros S Papadopoulos Chairman S S Papadopoulos Associates Inc This book offers the most detailed and comprehensive coverage available of aquifer hydraulics testing and analysis for a wide range of aquifer and well types under differing conditions It presents the theoretical foundations and limitations of existing analytical models for each ground water system along with an in depth examination of hydrogeologic data analysis methods Translating theory into practice detailed examples illustrate the real world application of well test techniques an invaluable aid to readers in the design execution and analysis of their own field tests With an accompanying computer disk packed with data analysis programs Aquifer Hydraulics is an essential tool for practicing and aspiring hydrogeologists environmental engineers and others involved in aquifer evaluation and protection Paper-Maker and British Paper Trade Journal , 1921
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