

Question Paper Code : 91259

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2014.

Seventh Semester

Civil Engineering

CE 2404/CE 1402/CE 74/10111 CE 704 — PRESTRESSED CONCRETE
STRUCTURES

(Regulation 2008/2010)

(Common to PTCE 2404/10111 CE 704 – Prestressed Concrete Structures for
B.E. (Part-Time) Sixth Semester Civil Engineering – Regulation 2009/2010)

Time : Three hours

Maximum : 100 marks

(Use of IS : 1343 – 1980 code is permitted)

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is the principle of post tensioning?
2. What is chemical prestressing?
3. Define partial prestressing.
4. What do you understand by unbonded tendon?
5. What is the main function of longitudinal prestressing?
6. What is circumferential prestressing?
7. What is shear connectors?
8. How do you form the bonding between prestressed units and reinforced units?
9. What is the main advantage of post tensioned prestressed concrete bridge deck over pretensioned concrete members?
10. Define class 1 type structures in a pre-stressed concrete bridges.

Prestressed Concrete Structures University Question Papers

**Nenad Bicanic, Herbert Mang, Gunther
Meschke, René de Borst**



Prestressed Concrete Structures University Question Papers:

Computational Modelling of Concrete Structures Nenad Bicanic, Herbert Mang, Gunther Meschke, René de Borst, 2014-03-04 The EURO C conference series Split 1984 Zell am See 1990 Innsbruck 1994 Badgastein 1998 St Johann im Pongau 2003 Mayrhofen 2006 Schladming 2010 St Anton am Alberg 2014 brings together researchers and practising engineers concerned with theoretical algorithmic and validation aspects associated with computational simulations of concrete and concrete structures The conference reviews and discusses research advancements and the applicability and robustness of methods and models for reliable analysis of complex concrete reinforced concrete and pre stressed concrete structures in engineering practice Conference topics and invited papers cover both computational mechanics and computational modelling aspects of the analysis and design of concrete and concrete structures Constitutive and Multiscale Modelling of Concrete Advances in Computational Modelling Time Dependent and Multiphysics Problems Performance of Concrete Structures The book is of special interest to researchers in computational concrete mechanics as well as industry experts in complex nonlinear simulations of concrete structures Bibliography on Prestressed Concrete University of Illinois. Engineering Experiment Station, E. M. Zwoyer, Ivan M. Viest, 1952 *10th International Conference on FRP Composites in Civil Engineering* Alper Ilki, Medine Ispir, Pinar Inci, 2021-11-26 This volume highlights the latest advances innovations and applications in the field of FRP composites and structures as presented by leading international researchers and engineers at the 10th International Conference on Fibre Reinforced Polymer FRP Composites in Civil Engineering CICE held in Istanbul Turkey on December 8 10 2021 It covers a diverse range of topics such as All FRP structures Bond and interfacial stresses Concrete filled FRP tubular members Concrete structures reinforced or pre stressed with FRP Confinement Design issues guidelines Durability and long term performance Fire impact and blast loading FRP as internal reinforcement Hybrid structures of FRP and other materials Materials and products Seismic retrofit of structures Strengthening of concrete steel masonry and timber structures and Testing The contributions which were selected by means of a rigorous international peer review process present a wealth of exciting ideas that will open novel research directions and foster multidisciplinary collaboration among different specialists **Mechanics of Structures and Materials** M.A. Bradford, R.Q. Bridge, S.J. Foster, 1999-01-01 Structural mechanics in Australasia is the focus of the some 100 papers but among them are also contributions from North America Japan Britain Asia and southeast Asia **Fiber-Reinforced-Plastic (FRP) Reinforcement for Concrete Structures** David A. Hensher, 2016-01-22 The use of fiber reinforced plastic FRP composites for prestressed and non prestressed concrete reinforcement has developed into a technology with serious and substantial claims for the advancement of construction materials and methods Research and development is now occurring worldwide The 20 papers in this volume make a further contribution in advancing knowledge and acceptance of FRP composites for concrete reinforcement The articles are divided into three parts Part I introduces FRP reinforcement for

concrete structures and describes general material properties and manufacturing methods Part II covers a three continent perspective of current R D design and code implementations and technical organizations activities Part III presents an in depth description of commercially available products construction methods and applications The work is intended for engineers researchers and developers with the objective of presenting them with a world wide cross section of initiatives representative products and significant applications

Fire Design of Concrete Structures - Materials, Structures and Modelling fib Fédération internationale du béton, 2007-01-01 Fire design of concrete structures has emerged in recent years as a high profile subject of great interest to both experts and the public This has been largely prompted by severe damage to concrete in a number of recent tunnel fires as well as a considerable amount of research and development that has taken place world wide fib Task Group 4 3 Fire Design of Concrete Structures therefore took the initiative to develop this bulletin in order to present the results of this international research to a wider group of concrete professionals The report presents a general brief outline of the effect of fire on both concrete material and concrete structures with emphasis placed on the important developments of the past few years namely a the increasing use of high strength concrete HSC in buildings tunnels and bridges b the growing acceptance of the use of performance based fire engineering calculations for the structural analysis and design against fire c the problem of and solutions to explosive spalling and d fires in tunnels This report is not intended to be an exhaustive review of the effect of fire on concrete and concrete structures nor to present a database of properties at high temperature Instead the main aims of this document are to present recent trends and developments highlight key influencing factors bring together the disparate but related issues in one short document highlight the deficiencies in current practice and point to the future The basic principles of performance based codes and fire engineering are also presented on the assumption that the reader is not a specialist in this field

Engineering Journal ,1954

Reliability Aspects in the Design and Execution of Concrete Structures Juraj Bilčík, Igor Hudoba, Ivan Holly, 2016-05-19 Special topic volume with invited peer reviewed papers only

Bibliography of Technical Reports ,1952

Applied Mechanics Reviews ,1974

Advances in Frontier Research on Engineering Structures Volume 1 Yang Yang, Sudharshan N. Raman, Bingxiang Yuan, Zhijun Xu, 2023-02-08 Advances in Frontier Research on Engineering Structures focuses on the research of advanced structures and anti seismic design in civil engineering The proceedings present the most cutting edge research directions and achievements related to civil and structural engineering Topics covered in the proceedings include Engineering Structure and Seismic Resistance Structural Mechanics Analysis Components and Materials Structural Seismic Design 3D Printing Concrete Other Related Topics The works of this proceedings will promote development of civil and structural engineering resource sharing flexibility and high efficiency Thereby promote scientific information interchange between scholars from the top universities research centers and high tech enterprises working all around the world

Bridge Safety, Maintenance, Management, Life-Cycle, Resilience and Sustainability Joan Ramon Casas, Dan M.

Frangopol, Jose Turmo, 2022-06-27 Bridge Safety Maintenance Management Life Cycle Resilience and Sustainability contains lectures and papers presented at the Eleventh International Conference on Bridge Maintenance Safety and Management IABMAS 2022 Barcelona Spain 11-15 July 2022. This e-book contains the full papers of 322 contributions presented at IABMAS 2022 including the T.Y. Lin Lecture, 4 Keynote Lectures and 317 technical papers from 36 countries all around the world. The contributions deal with the state of the art as well as emerging concepts and innovative applications related to the main aspects of safety, maintenance, management, life cycle, resilience, sustainability and technological innovations of bridges. Major topics include advanced bridge design, construction and maintenance approaches, safety, reliability and risk evaluation, life cycle management, life cycle resilience, sustainability, standardization, analytical models, bridge management systems, service life prediction, structural health monitoring, non-destructive testing and field testing, robustness and redundancy, durability enhancement, repair and rehabilitation, fatigue and corrosion, extreme loads, needs of bridge owners, whole life costing and investment for the future, financial planning and application of information and computer technology, big data analysis and artificial intelligence for bridges among others. This volume provides both an up-to-date overview of the field of bridge engineering and significant contributions to the process of making more rational decisions on bridge safety, maintenance, management, life cycle, resilience and sustainability of bridges for the purpose of enhancing the welfare of society. The volume serves as a valuable reference to all concerned with and/or involved in bridge structure and infrastructure systems including students, researchers and practitioners from all areas of bridge engineering.

Journal of the American Concrete Institute American Concrete Institute, 1980. Each number includes Synopsis of recent articles.

2nd fib Congress in Naples Italy Vol2 FIB - International Federation for Structural Concrete, 2006-06-01

Civil Engineering Learning Technology Robert Mitchell Lloyd, Carolynne Moore, 1999. The field of civil engineering offers specific challenges to the higher education sector. Civil engineering's blend of management, design and analysis requires people with a combination of academic and experimental knowledge and skill-based abilities. This volume brings together papers by leading practitioners in the field of learning technology within the discipline of civil engineering to facilitate the sharing of experience, knowledge and expertise.

Using the Engineering Literature Bonnie A. Osif, 2006-08-23. The field of engineering is becoming increasingly interdisciplinary and there is an ever-growing need for engineers to investigate engineering and scientific resources outside their own area of expertise. However, studies have shown that quality information finding skills often tend to be lacking in the engineering profession.

Using the Engineerin Concrete Ships and Vessels, Past, Present, and Future Tony C. Liu, James E. MacDonald, 1977. This report reviews the history of concrete ships and vessels over the past 130 years. The experience in the design, construction and operation of concrete vessels is also examined. Future trends and potential applications of concrete vessels are presented. The historical review and operational experience reveal that concrete is an ideal material for ships and vessels because it is economical, durable, water-tight, easy to repair.

excellent seaworthiness and less affected by fire and explosion The growing sophistication of prestressed concrete design and precasting construction techniques should improve confidence in the use of concrete and enhance prospects for the full utilization of its potential in many types of future concrete vessels Author Concrete Floors and Slabs Ravindra K. Dhir, Moray D. Newlands, T. A. Harrison, 2002 Concrete is a global material that underwrites commercial wellbeing and social development There is no substitute that can be used on the same engineering scale and its sustainability exploitation and further development are imperatives to creating and maintaining a healthy economy and environment worldwide The pressure for change and improvement of performance is relentless and necessary Concrete must keep evolving to satisfy the increasing demands of all its users Proceedings, 1951

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Table of Contents Prestressed Concrete Structures University Question Papers

1. Understanding the eBook Prestressed Concrete Structures University Question Papers
 - The Rise of Digital Reading Prestressed Concrete Structures University Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Prestressed Concrete Structures University Question Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Prestressed Concrete Structures University Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Prestressed Concrete Structures University Question Papers
 - Personalized Recommendations
 - Prestressed Concrete Structures University Question Papers User Reviews and Ratings
 - Prestressed Concrete Structures University Question Papers and Bestseller Lists
5. Accessing Prestressed Concrete Structures University Question Papers Free and Paid eBooks
 - Prestressed Concrete Structures University Question Papers Public Domain eBooks
 - Prestressed Concrete Structures University Question Papers eBook Subscription Services
 - Prestressed Concrete Structures University Question Papers Budget-Friendly Options

6. Navigating Prestressed Concrete Structures University Question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Prestressed Concrete Structures University Question Papers Compatibility with Devices
 - Prestressed Concrete Structures University Question Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Prestressed Concrete Structures University Question Papers
 - Highlighting and Note-Taking Prestressed Concrete Structures University Question Papers
 - Interactive Elements Prestressed Concrete Structures University Question Papers
8. Staying Engaged with Prestressed Concrete Structures University Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Prestressed Concrete Structures University Question Papers
9. Balancing eBooks and Physical Books Prestressed Concrete Structures University Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Prestressed Concrete Structures University Question Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Prestressed Concrete Structures University Question Papers
 - Setting Reading Goals Prestressed Concrete Structures University Question Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Prestressed Concrete Structures University Question Papers
 - Fact-Checking eBook Content of Prestressed Concrete Structures University Question Papers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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similar figures two surfaces or solids are similar if any two corresponding sides or planes are proportional in similar figures of any kind pairs of corresponding line segments such as x_1 x_2 and y_1 y_2 have the same ratio $x_1/x_2 = y_1/y_2$

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the diagram shows two similar solids and solid a has a volume of 80 cm^3 work out the volume of solid b

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calculate the volume of the larger cube using the illustration of the two similar solids indicated in the following illustration
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steps to identify similar solids step 1 determine the corresponding dimensions step 2 find the ratio of lengths of the corresponding dimensions step 3 check if the all of the ratios are all

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