

PART B — (5 × 16 = 80 marks)

11. (a) (i) Find the eigenvalues and the eigenvectors of the matrix
- $$\begin{bmatrix} 8 & -6 & 2 \\ -6 & 7 & -4 \\ 2 & -4 & 3 \end{bmatrix}. \quad (8)$$

- (ii) Using Cayley-Hamilton theorem find A^{-1} , if $A = \begin{bmatrix} 1 & 1 & 3 \\ 1 & 3 & -3 \\ -2 & -4 & -4 \end{bmatrix}$. (8)

Or

- (b) Reduce the quadratic form $2xy - 2yz + 2xz$ into a canonical form by an orthogonal reduction. (16)

12. (a) (i) Verify Gauss divergence theorem for the vector function $\vec{F} = x^2\vec{i} + y^2\vec{j} + z^2\vec{k}$ taken over the cuboids bounded by the planes $x = 0, y = 0, z = 0, x = 1, y = 1$, and $z = 1$. (10)

- (ii) Find the value of n so that the vector $r^n \vec{F}$ is irrotational and solenoidal. (6)

Or

- (b) (i) Apply Green's theorem to evaluate $\int_C [(2x^2 - y^2)dx + (x^2 + y^2)dy]$, where C is the boundary of the area by the x -axis and the upper half of the circle $x^2 + y^2 = a^2$. (8)

- (ii) Verify Stoke's theorem for $\vec{F} = (x^2 + y^2)\vec{i} + 2xy\vec{j}$, taken around the rectangle bounded by the lines $x = 0, y = 0, x = 1$ and $y = 1$. (8)

13. (a) (i) Determine the analytic function $f(z) = u + iv$, if $u = \frac{\sin 2x}{\cosh 2y - \cos 2x}$. (8)

- (ii) Find the bilinear transformation which maps the points $z = 1, i, -1$ onto $w = i, 0, -i$. (8)

Or

- (b) (i) Show that the real and imaginary parts of an analytic functions are harmonic. (8)

- (ii) Find the image of $|z - 2i| = 2$ under the transformation $w = \frac{1}{z}$. (8)

Civil Engineering Anna University Question Paper

Xiang Xie



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BUILDING MATERIALS, SECOND EDITION VARGHESE, P. C., 2015-02-26 This practice oriented book now in its second edition presents a lucid yet comprehensive coverage of the engineering properties and uses of the materials commonly used in building construction in India Profusely illustrated with tables and diagrams the book brings into light the basics of building materials and their specifications Besides giving information regarding the traditional building materials the text now acquaints the reader with up to date and in depth information pertaining to modern materials available in the market The references to IS codes and standards make this text suitable for further study and field use The second edition possesses some substantial changes in Chapters 12 13 14 and 20 Now the book offers a new section on durability of concrete in Chapter 12 a modified section regarding revision of IS 10262 1982 code on concrete mix design to IS 10262 2009 and a new section on classification of exposure conditions in Chapter 13 and a new section relating to large advances made in concrete construction and repair chemicals in Chapter 14 Besides the content of Chapter 20 has been completely updated with a particular emphasis on the extensive use of aluminium in building construction Primarily intended for the students pursuing undergraduate degree B E B Tech and diploma courses in civil engineering and architecture the book on account of lecture based presentation of the subject should also prove eminently utilitarian for the young teachers to use it in their classroom lectures as well as for practising engineers to get a clear understanding of the fundamentals of the subject NEW TO THE SECOND EDITION Review questions at the end of each chapter enable the reader to recapitulate the topics Considerable attention is given on field practice Syllabus of laboratory work on construction materials and a model question paper Anna University are given in appendices to guide the reader

BULIDING MATERIALS P. C. VARGHESE, 2005-01-01 This practice oriented book provides a lucid yet comprehensive coverage of the engineering properties and uses of the materials commonly used in building construction in India Profusely illustrated with tables and diagrams the book exposes the reader to the basics of building materials and their specifications The text also acquaints the reader with the traditional as well as modern materials available in the market The references to IS codes and standards make this text suitable for further study and field use This book is primarily designed as an introductory textbook for the students pursuing undergraduate degree B E B Tech and diploma courses in civil engineering and architecture Because of the lecture based presentation of the subject the text would also be of considerable benefit for the young teachers for their classroom lectures Practising engineers would also get a clear understanding of the fundamentals of the subject

Solid Mechanics (For Anna University) Bhavikatti S.S., Throughout the book emphasis has been laid on developing the concepts clarifying the units to be used in final equations and neatly presenting solutions for the numerical problems The features of this one stop book will help the students to prepare themselves for taking up the design papers taught in higher classes Key Features1 Use of SI units 2 Summary of important concepts and formulae at the end of the book3 Large number of solved problems presented

systematically4 Large number of exercise problems 5 Simple and clear explanation of concepts 6 Generous use of diagrams for better understanding7 Includes University question papers *Global Perspectives on Air Pollution Prevention and Control System Design* Venkatesan, G.,Thirumal, Jaganthan,2019-06-25 Once pollutants are released into the atmosphere they cannot be removed easily nor can the reaction with atmospheric constituents be ceased However through enhancing our understanding of control technology further addition of pollution can be forestalled Through better understanding of innovations in the field of air pollutant control technology and modelling better cost effective control equipment can be designed to achieve a clean biosphere for sustainable life in the near future *Global Perspectives on Air Pollution Prevention and Control System Design* is a pivotal reference source that provides vital research on the understanding of the basic concepts of air pollution modeling concepts development of various models for source specific pollutants and dispersion While highlighting topics such as climate change fossil fuels and motor vehicle emissions this publication explores the links between the global impact on climate change and modeling concepts of indoor air pollutants This book is ideally designed for professors students researchers environmental agencies environmentalists policymakers and government officials seeking current research on future solutions in critical fields of air pollution **Engineering News and American Contract Journal** ,1886 *Engineering News* ,1911 *Canadian Journal of Civil Engineering* ,1996 *An elementary mensuration for Indian schools. [2 vols. Vol.2 is entitled A mensuration for Indian schools and colleges].* A E. Pierpoint,1903 The Engineer ,1919 New York Review of the Telegraph and Telephone and Electrical Journal ,1887 **Electrical Review** ,1887 **Industrial Engineering** George Worthington,1887 **New England Journal of Education** Thomas Williams Bicknell,Albert Edward Winship,Anson Wood Belding,1900 *American Bee Journal* ,1902 Includes summarized reports of many bee keeper associations **The Nation** ,1896 **Newspaper Press Directory** ,1912 **Transportation Research Record** ,1994 **New Technical Books** New York Public Library,1926 **Herald and Presbyter** ,1910 **The Cornell Alumni News** ,1902

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