

**B. TECH**  
**(SEM-II) THEORY EXAMINATION 2017-18**  
**ENGINEERING MATHEMATICS - II**

Time: 3 Hours

Total Marks: 70

Note: Attempt all Sections. If require any missing data, then choose suitably.

**SECTION A**

1. Attempt all questions in brief. 2 x 7 = 14
- (a) Determine the differential equation whose set of independent solutions is  $\{e^x, xe^x, x^2e^x\}$ .
- (b) Solve:  $(D+1)^2 y = 2e^{-x}$ .
- (c) Prove that:  $P_n(-x) = (-1)^n P_n(x)$ .
- (d) Find inverse Laplace transform of  $\frac{s+8}{s^2+4s+5}$ .
- (e) If  $L\{F(\sqrt{t})\} = \frac{e^{-1/t}}{s}$ , find  $L\{e^{-t} F(3\sqrt{t})\}$ .
- (f) Solve:  $(D+4D'+5)^2 z = 0$ , where  $D = \frac{\partial}{\partial x}$ ,  $D' = \frac{\partial}{\partial y}$ .
- (g) Classify the equation:  $x_{xx} + 2xz_{xy} + (1-y^2)z_{yy} = 0$ .

**SECTION B**

2. Attempt any three of the following: 7 x 3 = 21
- (a) Solve  $(D^2 - 2D + 4)y = e^x \cos x + \sin x \cos 3x$ .
- (b) Prove that:  $J_{3/2}(x) = \sqrt{\frac{2}{\pi x}} \left[ \left( \frac{3-x^2}{x^2} \right) \sin x - \frac{3 \cos x}{x} \right]$ .
- (c) Draw the graph and find the Laplace transform of the triangular wave function of period  $2\pi$  given by
- $$F(t) = \begin{cases} t, & 0 < t \leq \pi \\ 2\pi - t, & \pi < t < 2\pi \end{cases}$$
- (d) Obtain half range cosine series for  $e^x$  the function  $f(t) = \begin{cases} 2t, & 0 < t < 1 \\ 2(2-t), & 1 < t < 2 \end{cases}$
- (e) Solve by method of separation of variables:  $\frac{\partial w}{\partial t} = \frac{\partial w}{\partial x} - 2w$ ;  $w(x, 0) = 10e^{-x} - 6e^{-4x}$ .

**SECTION C**

3. Attempt any one part of the following: 7 x 1 = 7
- (a) Solve the simultaneous differential equations:
- $$\frac{d^2 x}{dt^2} - 4 \frac{dx}{dt} + 4x = y \text{ and } \frac{d^2 y}{dt^2} + 4 \frac{dy}{dt} + 4y = 25x + 16e^t.$$
- (b) Use variation of parameter method to solve the differential equation  $x^2 y'' + xy' - y = x^2 e^x$ .

# Dk Jain Engineering Mathematics 2

**Bikas Chandra Bhui & Dipak  
Chatterjee**



## **Dk Jain Engineering Mathematics 2:**

**Engineering Mathematics-II** T.K.V. Iyengar, B. Krishna Gandhi, S. Ranganatham & M.V.S.S.N. Prasad, Engineering Mathematics II Engineering Mathematics - II, **World Encyclopaedia of Nations and Nationalities** E.G. Ravenstein & A.H. Keane, Elisee Reclus, 1997 The origins and development of the fascinating variety of continents countries and communities of the world are the engrossing subjects of the present prize set of 17 Vols in 34 Parts of the encyclopaedia With marvelously lucid text and equally graphic illustrations the writers and editors present a panoramic account of the splendid variety of the family of mankind its numerous and varied habitations its physical human and economic geography of man and his activities and the living dynamic relation that mankind had with fellow communities across land and sea as well as with the planet that sustains all of them The World Encyclopaedia of Nations and Nationalities opens to students teachers and general readers a vast and beautiful window onto the great as well as the little known customs manners and cultures of the world reveals the universal geographical features and singularities of all countries in the continents the introduces in vivid detail the many kind of inhabitants that are found world wide Not only is this brilliantly conceived encyclopaedia the pride of many libraries across the world but it is also regarded as an apt companion and complement to the earlier historic work of Darwin namely Origin of the Species In its comprehensive sweep and vibrant treatment the present the present volumes of this encyclopaedia will be an essential part of all libraries *A Textbook Of Engineering Mathematics-Ii (As Per Uptu Syllabus)* Gangwar, 2009 **Engineering Mathematics-II, 1/e** Das P. Sivaramakrishna, 2015 Engineering Mathematics is an interdisciplinary subject offered to the undergraduate engineering students Considering the vast coverage of the subject this book is designed for the second semester students of B E B Tech The book offers a large number of exercises and a variety of solved examples with reference to engineering applications wherever appropriate

**Engineering Mathematics II (WBUT), 2Nd Edition** Bikas Chandra Bhui & Dipak Chatterjee, Engineers face mathematical dilemmas every day be it simple arithmetic or complex differential equations To bail out engineers in such situations a thorough understanding of applied mathematical concepts is quintessential Engineering Mathematics II comes up with this and more from discussing graph theory to solving improper integrals from working out linear differential equations to understanding the Laplace transforms the book is an exhaustive cache of solved numerical examples to enhance learning and problem solving skills in students The book with its simple calculations and derivations completely meets the requirements of II semester BE BTech students who aspire to master mathematics Keeping the curriculum at focus the authors offer numerous problem sets and model question papers which serve as a great reference work for course study as well as for getting a real life experience of competitive exams With this book as guide students will find tackling complex concepts and problems an easy task It is a great all time companion for budding engineers Key Features 1 Lucid well explained concepts with solved examples 2 Numerical problem sets for self assessment 3 Large number of MCQs and model

test papers 4 Past examination papers with answers *International Books in Print*, 1997 **Introduction to Engineering Mathematics - II (MMTU,GBTU)** H K Dass, This book has been thoroughly revised according to the New Syllabus of Uttar Pradesh Technical University UPTU Lucknow For B E B Tech B Arch Students for second semester of all Engineering Colleges of Uttar Pradesh Technical University UPTU Lucknow *Indian Book Industry*, 1991 *Engineering Mathematics II* Sri Sri Ramachary, P. B. Bhaskara Rao, M. Bhujanga Rao, 2001 **Introduction to Engineering Mathematics - Volume II [APJAKTU Lucknow]** HK Dass et. al, Introduction to Engineering Mathematics Volume II has been thoroughly revised according to the New Syllabi 2018 onwards of Dr A P J Abdul Kalam Technical University AKTU Lucknow The book contains 15 chapters divided among five modules Ordinary Differential Equations of Higher Order Multivariable Calculus II Sequence and Series Complex Variable Differentiation and Complex Variable Integration It contains numerous solved examples from question papers of examinations recently held by different universities and engineering colleges so that the students may not find any difficulty while answering these problems in their final examination

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*Journal of the Institution of Engineers (India)*, 1981 **Mathematical Reviews**, 1986 **Gaṇita Bhāratī**, 1982 Pure and Applied Mathematika Sciences, 1992 **Mobility Management in Wireless Networks** Karen Q. Tian, Donald C. Cox, 2007-05-08 In wireless communication systems the network keeps track of a user's location through an up to date user profile stored in various databases A user profile contains not only a user's current location information but also service information such as billing and authentication The coverage area of an access network is divided into registration areas RAs and each RA is associated with a location database The two basic operations in mobility management are location update and location lookup When a user moves across the boundaries of these RAs the network updates his location information in the pertinent databases When a caller places a call using the callee's identification the network queries the relevant database s

to obtain the current location and other service information of the callee The performance of mobility management can be further enhanced by using replicas of user profiles which may be kept at various locations Replication techniques make profile information more readily available thus reducing lookup cost and latency but to keep these replicas consistent and fresh they must be updated whenever the user profile is updated The principle of replication is to replicate if the benefit of replication is greater than its overhead The difficulty however lies in accurately measuring the benefit and overhead

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