



Central Mindanao University
College of Engineering
Civil Engineering Department
CE-33 Numerical Solutions to CE Problems

Long Quiz No.2
April 8, 2021

Instructions: Using A-4 or 8.5" x 11" size paper, solve the following neatly. Show all necessary solutions and assumptions clearly. Submit a scanned copy or a photo of your work in the Google classroom on or before the specified time.

1. Determine the approximate solution of the system of linear equations below using **Gauss- Seidel Iteration** after 8 iterations. Show all iterations/solutions. Provide a brief discussion of your solution.

$$\begin{cases} 5x_1 + x_2 + x_3 - x_4 + 2x_5 = 0.2B + 7 \\ x_1 - 6x_2 + x_3 + x_4 - 2x_5 = 0.1C - 4.5 \\ 2x_1 + x_2 - x_3 - 8x_4 + 2x_5 = 0.15D - 3.5 \\ 2x_1 + x_2 + 2x_3 - 2x_4 + 7x_5 = 0.3A + 3 \\ -x_1 + 2x_2 + 6x_3 - x_4 - x_5 = 14 - 0.1C \end{cases}$$

Assume: $\begin{bmatrix} x_1^{(0)} \\ x_2^{(0)} \\ x_3^{(0)} \\ x_4^{(0)} \\ x_5^{(0)} \end{bmatrix} = \begin{bmatrix} 1 \\ 0 \\ 1 \\ 0 \\ 1 \end{bmatrix}$

2. A simply supported I-beam is loaded with a distributed load, as shown. The deflection, y , of the center line of the beam as a function of the position, x , is given by the equation:

$$y = \frac{w_0 x}{360EI} (7L^3 - 10L^2x^2 + 3x^4)$$

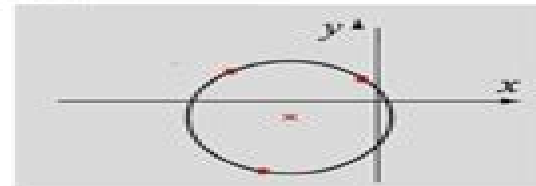


Where $L = (4.2 + 0.3C)$ m is the length, $E = (70 + 0.5D)$ GPa is the elastic modulus, $I = (52.9 + A) \times 10^{-6}$ m⁴ is the moment of inertia, and $w_0 = (18.5 + 0.5B)$ kN/m. Find the position x where the deflection of the beam is maximum, and determine the deflection at this point.

Hint: The maximum deflection is at the point where $dy/dx = 0$. Use **Newton - Raphson Method** with tolerance of 0.001. Provide a brief discussion of your solution.

3. In a Cartesian coordinate system the general equation of a circle is:

$$x^2 + y^2 + Dx + Ey + F = 0$$

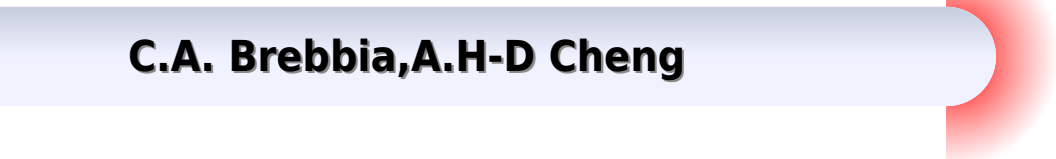


Given three points, $\{(-1 + 0.1C), (3 + 0.5B)\}$, $\{(-7.5 + 0.1D), (4 - 0.2B)\}$, and $\{(-5.5 + 0.2C), (-9.2 + 0.4A)\}$. Determine the equation of the circle that passes through the points.

Solve the problem by deriving a system of three linear equations and solve the system using **Jacobi Iteration** up to 7 iterations and assume all initial values equal to 0.5. Provide a brief discussion of your solution.

Numerical Solution Of Field Problems In

C.A. Brebbia,A.H-D Cheng



Numerical Solution Of Field Problems In:

Numerical Computation of Electric and Magnetic Fields Charles W. Steele, 2012-12-06 Since the first edition of this book was published in 1987 there have been several important changes in the state of numerical field computation as discussed in the Introduction These changes have motivated the publication of this second edition As with the first edition the objective of this second edition is to give the newcomer to field computation the information needed to perform practical field computations Again clarity of presentation is given greater emphasis than a high degree of sophistication or the state of the art And again the basic concepts of field computation are presented as well as the commonly used algorithms Several persons have provided much valuable information for this second edition I wish to thank Professor Giorgio Molinari of the University of Genoa Italy for advice regarding adaptive mesh generation Dr C R E Emson of Vector Fields Ltd England and Dr John Brauer of McNeal Schwendler Corp for their advice on transient eddy current computation and Dr Zoltan Cendes of Ansoft Corp for information about their adaptive mesh generator Again I would like to acknowledge the support for this second edition by my wife Candace Again I could not have written this book without her support NBS Special Publication, 1968 Computational Electromagnetics for RF and Microwave Engineering David B. Davidson, 2005-02-24 The numerical approximation of Maxwell's equations Computational Electromagnetics CEM has emerged as a crucial enabling technology for radio frequency microwave and wireless engineering The three most popular full wave methods the Finite Difference Time Domain Method the Method of Moments and the Finite Element Method are introduced in this book by way of one or two dimensional problems Commercial or public domain codes implementing these methods are then applied to complex real world engineering problems and a careful analysis of the reliability of the results obtained is performed along with a discussion of the many pitfalls which can result in inaccurate and misleading solutions The book will empower readers to become discerning users of CEM software with an understanding of the underlying methods and confidence in the results obtained It also introduces readers to the art of code development Aimed at senior undergraduate graduate students taking CEM courses and practising engineers in the industry **Numerical Analysis of Electromagnetic Fields** Pei-bai Zhou, 2012-12-06 Numerical methods for solving boundary value problems have developed rapidly Knowledge of these methods is important both for engineers and scientists There are many books published that deal with various approximate methods such as the finite element method the boundary element method and so on However there is no textbook that includes all of these methods This book is intended to fill this gap The book is designed to be suitable for graduate students in engineering science for senior undergraduate students as well as for scientists and engineers who are interested in electromagnetic fields Objective Numerical calculation is the combination of mathematical methods and field theory A great number of mathematical concepts principles and techniques are discussed and many computational techniques are considered in dealing with practical problems The purpose of this book is to provide students with a solid background in

numerical analysis of the field problems The book emphasizes the basic theories and universal principles of different numerical methods and describes why and how different methods work Readers will then understand any methods which have not been introduced and will be able to develop their own new methods Organization Many of the most important numerical methods are covered in this book All of these are discussed and compared with each other so that the reader has a clear picture of their particular advantage disadvantage and the relation between each of them The book is divided into four parts and twelve chapters

Computer Literature Bibliography: 1964-1967 W. W. Youden, 1965

The Finite Element Method O. C. Zienkiewicz, R. L. Taylor, S. Govindjee, 2024-11-21 The Finite Element Method Its Basis and Fundamentals Eighth Edition offers a complete introduction to the basis of the finite element method covering fundamental theory and worked examples in a kind of detail required for readers to apply the knowledge to their own engineering problems and understand more advanced applications This edition includes a significant addition of content addressing coupling problems including Finite element analysis formulations for coupled problems Details of algorithms for solving coupled problems Examples showing how algorithms can be used to solve for piezoelectricity and poroelasticity problems Focusing on the core knowledge mathematical and analytical tools needed for successful application this book is the authoritative resource of choice for graduate level students researchers and professional engineers involved in finite element based engineering analysis Includes fully worked exercises throughout the book Addresses the formulation and solution of coupled problems in detail Contains chapter summaries that help the reader keep up to speed

Applied Mechanics Reviews, 1974

The Finite Element Method Set O. C. Zienkiewicz, R. L. Taylor, 2005-11-25 The sixth editions of these seminal books deliver the most up to date and comprehensive reference yet on the finite element method for all engineers and mathematicians Renowned for their scope range and authority the new editions have been significantly developed in terms of both contents and scope Each book is now complete in its own right and provides self contained reference used together they provide a formidable resource covering the theory and the application of the universally used FEM Written by the leading professors in their fields the three books cover the basis of the method its application to solid mechanics and to fluid dynamics This is THE classic finite element method set by two the subject s leading authors FEM is a constantly developing subject and any professional or student of engineering involved in understanding the computational modelling of physical systems will inevitably use the techniques in these books Fully up to date ideal for teaching and reference

The Langevin Equation William Coffey, Yu. P. Kalmykov, J. T. Waldron, 1996 The book is suitable for a lecture course on the theory of Brownian motion being based on final year undergraduate lectures given at Trinity College Dublin Topics that are discussed include white noise the Chapman Kolmogorov equation Kramers Moyal expansion the Langevin equation the Fokker Planck equation Brownian motion of a free particle spectral density and the Wiener Khintchin theorem Brownian motion in a potential application to the Josephson effect ring laser gyro Brownian motion in two dimensions harmonic oscillators itinerant

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Boundary Elements and Other Mesh Reduction Methods C.A. Brebbia, A.H-D Cheng, 2018-02-01 Formed of presented papers this volume contains research from the 40th International Conference on Boundary Elements and other Mesh Reduction Methods recognised as THE international forum for the latest advances in these techniques and their applications in science and engineering The ongoing success of this series is a result of the strength of research being carried out all over the world and the coverage has continually evolved in line with the latest developments in the field The books originating from this conference series constitute a record of the development of BEM MRM running from the initial successful development of boundary integral techniques into the boundary element method a technique that eliminates the need for an internal mesh to the recent and most sophisticated Mesh Reduction and even Meshless Methods Since these methods are used in many engineering and scientific fields the 2017 book Boundary Elements and other Mesh Reduction Methods XXXX like the series before will be of great interest to those working within the areas of numerical analysis boundary elements and meshless methods The research papers included in this volume cover Advanced formulations Advanced meshless and mesh reduction methods Structural mechanics applications Solid mechanics Heat and mass transfer Electrical engineering and electromagnetics Computational methods Fluid flow modelling Damage mechanics and fracture Dynamics and vibrations Engineering applications Interfacing with other methods Coupling with design and manufacturing Solution of large systems of equations

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