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:

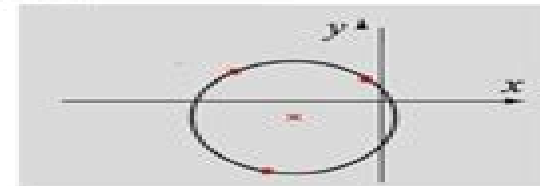$$y = \frac{w_0 x}{360LEI}\left(7L^4 - 10L^2x^2 + 3x^4\right)$$

Where $L = (4.2 + 0.3C)$ m is the length, $E = (70 + 0.5D)$ GPa is the elastic modulus, $I = (52.9 + A) \times 10^{-6}$ m^4 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

O. C. Zienkiewicz,R. L. Taylor,J.Z. Zhu

Numerical Solution Of Field Problems In:

    <u>Modified Strongly Implicit Procedure for the Numerical Solution of Field Problems</u> G. E. Schneider, *Analysis and Computation of Electric and Magnetic Field Problems* K. J. Binns,P. J. Lawrenson,2013-10-22 Analysis and Computation of Electric and Magnetic Field Problems Second Edition is a comprehensive treatment of both analytical and numerical methods for the derivation of two dimensional static and quasi static electric and magnetic fields The essence of each method of solution is emphasized and the scopes of the different methods are described with particular regard to the influence of digital computers This book is comprised of 12 chapters and begins with an introduction to the fundamental theory of electric and magnetic fields The derivation of quantities of physical interest such as force inductance and capacitance from the field solution is explained The next section deals with the methods of images and separation of variables and presents direct solutions of Laplace s equation and of Poisson s equation The basic solutions are developed rigorously from considerations of surface charges and are expressed in complex variable form Subsequent chapters discuss transformation methods as well as line and doublet sources the transformation of regions exterior to finite boundaries and the powerful numerical methods used to enlarge the scope of conformal transformation The last section is devoted to finite difference methods and the Monte Carlo method along with all classes of boundary shape and condition This monograph is intended primarily for engineers physicists and mathematicians as well as degree students towards the end of their courses **Electromagnetics through the Finite Element Method** José Roberto Cardoso,2016-10-03 Shelving Guide Electrical Engineering Since the 1980s more than 100 books on the finite element method have been published making this numerical method the most popular The features of the finite element method gained worldwide popularity due to its flexibility for simulating not only any kind of physical phenomenon described by a set of differential equations but also for the possibility of simulating non linearity and time dependent studies Although a number of high quality books cover all subjects in engineering problems none of them seem to make this method simpler and easier to understand This book was written with the goal of simplifying the mathematics of the finite element method for electromagnetic students and professionals relying on the finite element method for solving design problems Filling a gap in existing literature that often uses complex mathematical formulas Electromagnetics through the Finite Element Method presents a new mathematical approach based on only direct integration of Maxwell s equation This book makes an original scholarly contribution to our current understanding of this important numerical method **The Finite Element Method: Its Basis and Fundamentals** O. C. Zienkiewicz,R. L. Taylor,J.Z. Zhu,2005-05-26 The Sixth Edition of this influential best selling book delivers the most up to date and comprehensive text and reference yet on the basis of the finite element method FEM for all engineers and mathematicians Since the appearance of the first edition 38 years ago The Finite Element Method provides arguably the most authoritative introductory text to the method covering the latest developments and approaches in this dynamic subject and is amply supplemented by exercises worked solutions and

computer algorithms The classic FEM text written by the subject s leading authors Enhancements include more worked examples and exercises With a new chapter on automatic mesh generation and added materials on shape function development and the use of higher order elements in solving elasticity and field problemsActive research has shaped The Finite Element Method into the pre eminent tool for the modelling of physical systems It maintains the comprehensive style of earlier editions while presenting the systematic development for the solution of problems modelled by linear differential equations Together with the second and third self contained volumes 0750663219 and 0750663227 The Finite Element Method Set 0750664312 provides a formidable resource covering the theory and the application of FEM including the basis of the method its application to advanced solid and structural mechanics and to computational fluid dynamics The classic introduction to the finite element method by two of the subject s leading authors Any professional or student of engineering involved in understanding the computational modelling of physical systems will inevitably use the techniques in this key text

The Finite Element Method in Electromagnetics Jian-Ming Jin,2015-02-18 A new edition of the leading textbook on the finite element method incorporating major advancements and further applications in the field of electromagnetics The finite element method FEM is a powerful simulation technique used to solve boundary value problems in a variety of engineering circumstances It has been widely used for analysis of electromagnetic fields in antennas radar scattering RF and microwave engineering high speed high frequency circuits wireless communication electromagnetic compatibility photonics remote sensing biomedical engineering and space exploration The Finite Element Method in Electromagnetics Third Edition explains the method s processes and techniques in careful meticulous prose and covers not only essential finite element method theory but also its latest developments and applications giving engineers a methodical way to quickly master this very powerful numerical technique for solving practical often complicated electromagnetic problems Featuring over thirty percent new material the third edition of this essential and comprehensive text now includes A wider range of applications including antennas phased arrays electric machines high frequency circuits and crystal photonics The finite element analysis of wave propagation scattering and radiation in periodic structures The time domain finite element method for analysis of wideband antennas and transient electromagnetic phenomena Novel domain decomposition techniques for parallel computation and efficient simulation of large scale problems such as phased array antennas and photonic crystals Along with a great many examples The Finite Element Method in Electromagnetics is an ideal book for engineering students as well as for professionals in the field   A Method of Fundamental Solutions in Poroelasticity to Model the Stress Field in Geothermal Reservoirs Matthias Albert Augustin,2015-07-15 This monograph focuses on the numerical methods needed in the context of developing a reliable simulation tool to promote the use of renewable energy One very promising source of energy is the heat stored in the Earth s crust which is harnessed by so called geothermal facilities Scientists from fields like geology geo engineering geophysics and especially geomathematics are called upon to help make geothermics a reliable and safe energy

production method One of the challenges they face involves modeling the mechanical stresses at work in a reservoir The aim of this thesis is to develop a numerical solution scheme by means of which the fluid pressure and rock stresses in a geothermal reservoir can be determined prior to well drilling and during production For this purpose the method should i include poroelastic effects ii provide a means of including thermoelastic effects iii be inexpensive in terms of memory and computational power and iv be flexible with regard to the locations of data points After introducing the basic equations and their relations to more familiar ones the heat equation Stokes equations Cauchy Navier equation the method of fundamental solutions and its potential value concerning our task are discussed Based on the properties of the fundamental solutions theoretical results are established and numerical examples of stress field simulations are presented to assess the method s performance The first ever 3D graphics calculated for these topics which neither requiring meshing of the domain nor involving a time stepping scheme make this a pioneering volume *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 *Computational Electromagnetics for RF and Microwave Engineering* David B. Davidson,2010-10-28 This hands on introduction to computational electromagnetics CEM links theoretical coverage of the three key methods the FDTD MoM and FEM to open source MATLAB codes freely available online in 1D 2D and 3D together with many practical hints and tips gleaned from the author s 25 years of experience in the field Updated and extensively revised this second edition includes a new chapter on 1D FEM analysis and extended 3D treatments of the FDTD MoM and FEM with entirely new 3D MATLAB codes Coverage of higher order finite elements in 1D 2D and 3D is also provided with supporting code in addition to a detailed 1D example of the FDTD from a FEM perspective With running

examples through the book and end of chapter problems to aid understanding this is ideal for professional engineers and senior undergraduate graduate students who need to master CEM and avoid common pitfalls in writing code and using existing software   **Engineering Field Theory** A. J. Baden Fuller,2014-05-17 Engineering Field Theory focuses on the applications of field theory in gravitation electrostatics magnetism electric current flow conductive heat transfer fluid flow and seepage The manuscript first ponders on electric flux electrical materials and flux function Discussions focus on field intensity at the surface of a conductor force on a charged surface atomic properties doublet and uniform field flux tube and flux line line charge and line sink field of a surface charge field intensity flux density permittivity and Coulomb s law The text then takes a look at gravitation and fluid flow magnetic flux and electric potential Topics include capacitance with mixed dielectric capacitance potential function electric intensity magnetization field intensity current loop and magnetic dipole magnetic field of an electric current velocity pressure gravitational field intensity and gravitational constant The book ponders on experimental techniques numerical methods and electromagnetic induction including Hall effect magnetic energy method of construction computer techniques and space diagram The publication is a highly recommended source material for engineers and researchers wanting to study further engineering field theory   **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   Monthly Weather Review ,1972   NBS Special Publication ,1968   Proceedings of the International Field Exploration and Development Conference 2021 Jia'en Lin,2022-09-07 This book focuses on reservoir surveillance and management reservoir evaluation and dynamic description reservoir production stimulation and EOR ultra tight reservoir unconventional oil and gas resources technology oil and gas well production testing and geomechanics This book is a compilation of selected papers from the 11th International Field Exploration and Development Conference IFEDC 2021 The conference not only provides a platform to exchanges experience but also promotes the development of scientific research in oil gas exploration and production The main audience for the work includes reservoir engineer geological engineer enterprise managers senior engineers as well as professional students

Mathematical Analysis and Simulation of Field Models in Accelerator Circuits Idoia Cortes Garcia,2021-01-04 This book deals with the analysis and development of numerical methods for the time domain analysis of multiphysical effects in superconducting circuits of particle accelerator magnets An important challenge is the simulation of quenching i e the transition of a material from the superconducting to the normally electrically conductive state The book analyses complex mathematical structures and presents models to simulate such quenching events in the context of generalized circuit elements Furthermore it proposes efficient parallelized algorithms with guaranteed convergence properties for the simulation of multiphysical problems Spanning from theoretical concepts to applied research and featuring rigorous mathematical presentations on one side as well as simplified explanations of many complex issues on the other side this book provides graduate students and researchers with a comprehensive introduction on the state of the art and a source of inspiration for future research Moreover the proposed concepts and methods can be extended to the simulation of multiphysical phenomena in different application contexts **Industrial Application of Electromagnetic Computer Codes** Yves R. Crutzen,Giorgio Molinari,Guglielmo Rubinacci,2012-12-06 During the last decade a new generation of software tools has evolved in computational electromagnetics Both analyti cal methods and particularly numerical techniques have improved considerably leading to an extended range of capabilities and an increased applicability of both dedicated and general purpose computer codes It is the intention of this volume to review the state of the art in electromagnetic analysis and design and to describe the fundamentals and the advances in theoreti cal numerical approaches coupled with practical solutions for static and time dependent fields In this context the book illustrates the effectiveness of numerical techniques and associated computer codes in solving real electromagnetic field problems In addition it demonstrates the usefulness of modern codes for the analysis of many industrial practical cases In particular solutions of magnetostatic and magnetodynamic problems applied to electrical machines induction heating non destructive testing fusion reactor technology and other industrial are presented and discussed The present volume reflects and combines the lectures which are organized in the frame of the Eurocourse programme at JRC Ispra under the sponsorship of the Institute for Sys tems Engineering and Informatics ISEI It is hoped that in this context the Institute and particularly the Systems Engineering Reliability SER Division can play a stimulating role in sponsoring and promoting the diffusion of knowledge in novel areas of computer and information science *Handbook of Software Solutions for ICME* Georg J. Schmitz,Ulrich Prahl,2016-12-19 As one of the results of an ambitious project this handbook provides a well structured directory of globally available software tools in the area of Integrated Computational Materials Engineering ICME The compilation covers models software tools and numerical methods allowing describing electronic atomistic and mesoscopic phenomena which in their combination determine the microstructure and the properties of materials It reaches out to simulations of component manufacture comprising primary shaping forming joining coating heat treatment and machining processes Models and tools addressing the in service behavior

like fatigue corrosion and eventually recycling complete the compilation An introductory overview is provided for each of these different modelling areas highlighting the relevant phenomena and also discussing the current state for the different simulation approaches A must have for researchers application engineers and simulation software providers seeking a holistic overview about the current state of the art in a huge variety of modelling topics This handbook equally serves as a reference manual for academic and commercial software developers and providers for industrial users of simulation software and for decision makers seeking to optimize their production by simulations In view of its sound introductions into the different fields of materials physics materials chemistry materials engineering and materials processing it also serves as a tutorial for students in the emerging discipline of ICME which requires a broad view on things and at least a basic education in adjacent fields **The Biomedical Engineering Handbook 1** Joseph D. Bronzino,2000-02-15 Electric Field Analysis Sivaji Chakravorti,2017-12-19 Electric Field Analysis is both a student friendly textbook and a valuable tool for engineers and physicists engaged in the design work of high voltage insulation systems The text begins by introducing the physical and mathematical fundamentals of electric fields presenting problems from power and dielectric engineering to show how the theories are put into practice The book then describes various techniques for electric field analysis and their significance in the validation of numerically computed results as well as Discusses finite difference finite element charge simulation and surface charge simulation methods for the numerical computation of electric fields Provides case studies for electric field distribution in a cable termination around a post insulator in a condenser bushing and around a gas insulated substation GIS spacer Explores numerical field calculation for electric field optimization demonstrating contour correction and examining the application of artificial neural networks Explains how high voltage field optimization studies are carried out to meet the desired engineering needs Electric Field Analysis is accompanied by an easy to use yet comprehensive software for electric field computation The software along with a wealth of supporting content is available for download with qualifying course adoption **Applied Mechanics Reviews** ,1974 **Monthly Catalog of United States Government Publications, Cumulative Index** United States. Superintendent of Documents,1976

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Table of Contents Numerical Solution Of Field Problems In

1. Understanding the eBook Numerical Solution Of Field Problems In
    - The Rise of Digital Reading Numerical Solution Of Field Problems In
    - Advantages of eBooks Over Traditional Books
2. Identifying Numerical Solution Of Field Problems In
    - 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 Numerical Solution Of Field Problems In
    - User-Friendly Interface
4. Exploring eBook Recommendations from Numerical Solution Of Field Problems In
    - Personalized Recommendations
    - Numerical Solution Of Field Problems In User Reviews and Ratings

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