

JUNIOR SCHOOL CERTIFICATE EXAMINATION (JSCE)

MATHEMATICS PAST QUESTIONS & ANSWERS

Practice Questions from Previous Exams

2014 Jsce Mathematics

Lin Zhang, Xiao Song, Yunjie Wu

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improvements in computing power and digital information availability we are witnessing the increasing use of high performance computers to enhance simulations for the forecasting of hazards disasters and responses This major reference work summarizes the theories analysis methods and computational results of various earthquake simulations by the use of supercomputers It covers simulations in the fields of seismology physical geology earthquake engineering specifically the seismic response of structures and the socioeconomic impact of post earthquake recovery on cities and societies Individual chapters address phenomena such as earthquake cycles and plate boundary behavior tsunamis structural response to strong ground motion and post disaster traffic flow and economic activity. The methods used for these simulations include finite element methods discrete element methods smoothed particle hydrodynamics and multi agent models among others The simulations included in this book provide an effective bird s eye view of cutting edge simulations enhanced with high performance computing for earthquake occurrence earthquake damage and recovery from the damage combining three of the major fields of earthquake studies earth science earthquake engineering and disaster mitigation related social science The book is suitable for advanced undergraduates graduates and researchers in these fields Practical Inverse Problems and Their Prospects Takashi TAKIGUCHI, Takashi OHE, Jin Cheng, Cheng HUA, 2023-09-09 This book comprises select proceedings of the workshop Practical inverse problems and their prospects held online by zoom from Mar 2nd to Mar 4th 2022 supported by Institute of Mathematics for Industry Kyushu University focusing on cutting edge research carried out in the areas of practical inverse problems based on industry academia and interdisciplinary collaborations Various themes on practical inverse problems covered in this book are medical imaging non destructive and non invasive inspections viscoelastic waves remote sensing infrared light tomography maintenance of infrastructure and so on and mathematical theories in inverse problems are also handled in these proceedings All papers in this book are written by qualified authors in the practical inverse problems area and also the papers are newly announced Readers can get leading edge information on practical inverse problems Application of Group Theory to Symmetric Structures Ichiro Ario, Machi Zawidzki, 2024-04-11 Ario and Zawidzki show readers how to handle symmetric structures in engineering using group theoretic bifurcation theory as a mathematical tool for the finite element analysis of symmetric structures They guide the reader from the initial mathematical concepts through to application examples Readers will gain a solid theoretical grounding in group theory and strong working knowledge of the use of computational frameworks for structural analysis using mathematical representations of symmetry and physical symmetry First the authors elaborate an outline of symmetric structures in engineering and then describe the representation of symmetry and group theory They then discuss block diagonalization theory and finite element analysis models This provides readers with the base knowledge needed for Chapter 6 which is based on numerical analysis examples of invariant static FEM model systems and dynamic model systems of the dihedral group This unique approach is a vital method that will enable readers to reduce the time and computation needed for

accurate analysis so that they can better design such structures The focus on finite element methods and practical examples and case studies throughout provides a strong practical foundation for anyone studying or working in this field The book is a valuable resource for undergraduate and postgraduate students on various courses such as civil and mechanical engineering architecture structural engineering applied mathematics and physics Additionally it describes vital practical solutions for structural engineers structural system manufacturers fabricators of prefabricated elements and developers of computational mechanics and so on Theory, Methodology, Tools and Applications for Modeling and Simulation of Complex Systems Lin Zhang, Xiao Song, Yunjie Wu, 2016-09-21 This four volume set CCIS 643 644 645 646 constitutes the refereed proceedings of the 16th Asia Simulation Conference and the First Autumn Simulation Multi Conference AsiaSim SCS AutumnSim 2016 held in Beijing China in October 2016 The 265 revised full papers presented were carefully reviewed and selected from 651 submissions The papers in this third volume of the set are organized in topical sections on Cloud technologies in simulation applications fractional calculus with applications and simulations modeling and simulation for energy environment and climate SBA virtual prototyping engineering technology simulation and Big Data Creep and Hygrothermal Effects in Concrete Structures Zdeněk P. Bažant, Milan Jirásek, 2018-01-17 This comprehensive treatise covers in detail practical methods of analysis as well as advanced mathematical models for structures highly sensitive to creep and shrinkage Effective computational algorithms for century long creep effects in structures moisture diffusion and high temperature effects are presented The main design codes and recommendations including RILEM B3 and B4 are critically compared Statistical uncertainty of century long predictions is analyzed and its reduction by extrapolation is discussed with emphasis on updating based on short time tests and on long term measurements on existing structures Testing methods and the statistics of large randomly collected databases are critically appraised and improvements of predictions of multi decade relaxation of prestressing steel cyclic creep in bridges cracking damage etc are demonstrated Important research directions such as nanomechanical and probabilistic modeling are identified and the need for separating the long lasting autogenous shrinkage of modern concretes from the creep and drying shrinkage data and introducing it into practical prediction models is emphasized All the results are derived mathematically and justified as much as possible by extensive test data The theoretical background in linear viscoelasticity with aging is covered in detail The didactic style makes the book suitable as a textbook Everything is properly explained step by step with a wealth of application examples as well as simple illustrations of the basic phenomena which could alternate as homeworks or exams The book is of interest to practicing engineers researchers educators and graduate students

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