

DAY - 18

CONFIDENTIAL

2020	III	13	1100	VM-630	(E)
COMPUTER SCIENCE PAPER - II (D-9)					
Time : 3 Hours		5 Pages		Max. Marks : 50	

General instructions to Moderators and Examiners :

- (1) The model answer are only guidelines. Equally correct value points which are not mentioned in the model answer, should also be given credit.
- (2) Programs written with different but correct logic should be given full credit.
- (3) Comments/Remarks in assembly language program has credit of 1 mark.

1. (A) Select the correct alternative and rewrite the following :

(a) (iv) TRAP	1	
(b) (ii) 2 Byte	1	
(c) (iv) 64 KByte	1	
(d) (iv) Fiber Optic	1	
- (B) Answer any two of the following :

(a) Any three generation.	3	
(b) Explanation of any three addressing mode example.	3	
(c) - Definition of HUB	1	
- Active HUB	1	
- Passive HUB	1	3
2. (A) Solve any two of the following :

(a) - Explanation	2	
- Advantage	1	3
(b) Explanation of each instruction	1×3	3
(c) - Definition of Topology	1	
- Physical Topology	1	
- Logical Topology	1	3

Model Ans Paper W13

Marek Rudnicki, Slawomir Wiak



Model Ans Paper W13:

The Scaled Boundary Finite Element Method John P. Wolf, 2003-03-14 A novel computational procedure called the scaled boundary finite element method is described which combines the advantages of the finite element and boundary element methods. Of the finite element method that no fundamental solution is required and thus expanding the scope of application for instance to anisotropic material without an increase in complexity and that singular integrals are avoided and that symmetry of the results is automatically satisfied. Of the boundary element method that the spatial dimension is reduced by one as only the boundary is discretized with surface finite elements reducing the data preparation and computational efforts that the boundary conditions at infinity are satisfied exactly and that no approximation other than that of the surface finite elements on the boundary is introduced. In addition the scaled boundary finite element method presents appealing features of its own: an analytical solution inside the domain is achieved permitting for instance accurate stress intensity factors to be determined directly and no spatial discretization of certain free and fixed boundaries and interfaces between different materials is required. In addition the scaled boundary finite element method combines the advantages of the analytical and numerical approaches. In the directions parallel to the boundary where the behaviour is in general smooth the weighted residual approximation of finite elements applies leading to convergence in the finite element sense. In the third radial direction the procedure is analytical permitting e.g. stress intensity factors to be determined directly based on their definition or the boundary conditions at infinity to be satisfied exactly. In a nutshell the scaled boundary finite element method is a semi-analytical fundamental solution less boundary element method based on finite elements. The best of both worlds is achieved in two ways: with respect to the analytical and numerical methods and with respect to the finite element and boundary element methods within the numerical procedures. The book serves two goals. Part I is an elementary text without any prerequisites, a primer but which using a simple model problem still covers all aspects of the method and Part II presents a detailed derivation of the general case of statics, elastodynamics and diffusion.

Scientific and Technical Aerospace Reports, 1974 **NASA Technical Paper**, 1982 *Exactly Solved Models: A Journey In Statistical Mechanics - Selected Papers With Commentaries (1963-2008)* Fa Yueh Wu, 2009-03-03 This unique volume provides a comprehensive overview of exactly solved models in statistical mechanics by looking at the scientific achievements of F Y Wu in this and related fields which span four decades of his career. The book is organized into topics ranging from lattice models in condensed matter physics to graph theory in mathematics and includes the author's pioneering contributions. Through insightful commentaries the author presents an overview of each of the topics and an insider's look at how crucial developments emerged. With the inclusion of important pedagogical review articles by the author, *Exactly Solved Models* is an indispensable learning tool for graduate students and an essential reference and source book for researchers in physics and mathematics as well as historians of science.

Uncertainty and Imprecision in Decision Making and Decision Support: New Challenges, Solutions and

Perspectives Krassimir T. Atanassov, Vassia Atanassova, Janusz Kacprzyk, Andrzej Kaluszko, Maciej Krawczak, Jan W. Owsinski, Sotir Sotirov, Evdokia Sotirova, Eulalia Szmidt, Slawomir Zadrozny, 2020-06-26 This book gathers selected papers from two important conferences held on October 24-28 2018 in Warsaw Poland the Fifteenth National Conference of Operational and Systems Research BOS 2018 one of the leading conferences in the field of operational and systems research not only in Poland but also at the European level and the Seventeenth International Workshop on Intuitionistic Fuzzy Sets and General Nets IWIFSGN 2018 one of the premiere conferences on fuzzy logic The papers presented here constitute a fair and comprehensive representation of the topics covered by both BOS 2018 and IWIFSGN 2018 including extensions of the traditional fuzzy sets in particular on the intuitionistic fuzzy sets as well as other topics in uncertainty and imprecision modeling the Generalized Nets GNs a powerful extension of the traditional Petri net paradigm and InterCriteria Analysis a new method for feature selection and analyses in multicriteria and multi attribute decision making problems The Workshop was dedicated to the memory of Professor Beloslav Rie an 1936-2018 a regular participant at the IWIFSGN workshops

Progress in Artificial Intelligence Goreti Marreiros, Bruno Martins, Ana Paiva, Bernardete Ribeiro, Alberto Sardinha, 2022-09-12 This book constitutes the proceedings of the 21st EPIA Conference on Artificial Intelligence EPIA 2022 which took place in Lisbon Portugal in August-September 2022 The 64 papers presented in this volume were carefully reviewed and selected from 85 submissions They were organized in topical sections as follows AI4IS Artificial Intelligence for Industry and Societies AIL Artificial Intelligence and Law AIM Artificial Intelligence in Medicine AIPES Artificial Intelligence in Power and Energy Systems AITS Artificial Intelligence in Transportation Systems AmIA Ambient Intelligence and Affective Environments GAI General AI IROBOT Intelligent Robotics KDBI Knowledge Discovery and Business Intelligence KRR Knowledge Representation and Reasoning MASTA Multi Agent Systems Theory and Applications TeMA Text Mining and Applications

Network Optimization Julia Pahl, Torsten Reiners, Stefan Voß, 2011-09-15 This book constitutes the refereed proceedings of the 5th International Conference on Network Optimization INOC 2011 held in Hamburg Germany in June 2011 The 65 revised full papers presented were carefully reviewed and selected from numerous submissions The papers highlight recent developments in network optimization and are organized in the following topical sections theoretical problems uncertainty graph theory and network design network flows routing and transportation and further optimization problems and applications energy oriented network design telecom applications location maritime shipping and graph theory

Mathematical Models for Phase Change Problems J.F. Rodrigues, 2013-03-07 This monograph collects research and expository articles reflecting the interaction and the cooperation of different groups in several European institutions concerning current research on mathematical models for the behaviour of materials with phase change These papers were presented and discussed in a Workshop held at Obidos Portugal during the first three days of October 1988 and grew out of a two year period of intensive exploitation of different abilities and mathematical experiences of the six participating groups

namely in the University of Augsburg which was the coordination center of this project the Laboratoire Central des Ponts et Chaussées of Paris the Aristoteles University of Thessaloniki the University of Florence the University of Lisbon and the University of Oxford This project was carried out under the title Mathematical Models of Phase Transitions and Numerical Simulation in the framework of twinning program for stimulation of cooperation and scientific interchange sponsored by the European Community The underlying idea of the project was to create and study the mathematical models arising in applied engineering problems with free boundaries in a broad sense namely in melting and freezing problems diffusion reaction processes solid solid phase transition hysteresis phenomena mushy region descriptions contact problems with friction and/or adhesion elastoplastic deformations etc vi This large spectrum of applied problems have in common the main feature of brusque transitions of their qualitative behaviour that correspond in general to non classical discontinuous monotone or non monotone strong nonlinearities in the mathematical equations

DNA Computing Masami Hagiya, Azuma

Ohuchi, 2003-02-05 This book constitutes the thoroughly refereed post proceedings of the 8th International Workshop on DNA Based Computers DNA8 held in Sapporo Japan in June 2002 The 30 revised full papers presented were carefully selected during two rounds of reviewing and improvement from an initial total of 68 submissions The papers are organized in topical sections on self assembly and autonomous molecular computation molecular evolution and application to biotechnology applications to mathematical problems nucleic acid sequence design and theory

Dynamics and Control of Structures Leonard Meirovitch, 1991-01-16 A text reference on analysis of structures that deform in use Presents a new integrated approach to analytical dynamics structural dynamics and control theory and goes beyond classical dynamics of rigid bodies to incorporate analysis of flexibility of structures Includes real world examples of applications such as robotics precision machinery and aircraft structures

Summaries of Papers Presented at the Quantum Electronics and Laser Science Conference, 1995

Chinese Computational Linguistics and Natural Language Processing Based on Naturally Annotated Big Data Maosong Sun, Zhiyuan Liu, Min Zhang, Yang Liu, 2015-11-07 This book constitutes the

refereed proceedings of the 14th China National Conference on Computational Linguistics CCL 2014 and of the Third International Symposium on Natural Language Processing Based on Naturally Annotated Big Data NLP NABD 2015 held in Guangzhou China in November 2015 The 34 papers presented were carefully reviewed and selected from 283 submissions The papers are organized in topical sections on lexical semantics and ontologies semantics sentiment analysis opinion mining and text classification machine translation multilinguality in NLP machine learning methods for NLP knowledge graph and information extraction discourse coreference and pragmatics information retrieval and question answering social computing NLP applications

International Dictionary of Marketing and Communication Frank William. Jefkins, 2012-12-06 This dictionary covers marketing communications in the broadest sense including advertising but also extending to public relations which concerns many organizations not involved in marketing and which have little to do with advertising Entries

have been gathered from around the world and this dictionary will therefore be valuable to those operating in an international environment where different terms or terms with different spellings are used. There are also terms with different meanings depending on their country of origin. For example, in the UK newspapers are called press media while in the USA the term print media is more usual. In the UK print usually applies to printed items such as sales or educational literature. Likewise, there are big differences between European and American broadcasting systems and sponsored radio or TV can mean different things around the world. Outdoor advertising also has different terminology in different countries, especially in North America and the UK. In many cases, alternative British and American terms are given while some are either European or American. Some terminology is specific to a certain country. Entries have been collected from all parts of the world, including the oral media or folk media of the Third World. Financial terms have been included because of their increasing importance in advertising and public relations, and the dictionary reflects the increasing relevance of satellites and computers.

Staff Paper, 2001 **International Land Reclamation and Mine Drainage Conference and Third International Conference on the Abatement of Acidic Drainage: Abandoned mine lands and topical issues**, 1994 **System Modelling and Optimization** M.J.D. Powell, S. Scholtes, 2013-03-20. System Modelling and Optimization covers research issues within systems theory, optimization, modelling, and computing. It includes contributions to structural mechanics, integer programming, nonlinear programming, interior point methods, dynamical systems, stability analysis, stochastic optimization, bilevel optimization, and semidefinite programming. Several survey papers written by leading experts in their fields complement new developments in theory and applications. This book contains most of the invited papers and a few carefully selected submitted papers that were presented at the 19th IFIP TC7 Conference on System Modelling and Optimization, which was held in Cambridge, England, from July 12 to 16, 1999, and sponsored by the International Federation for Information Processing (IFIP).

Selected Papers of K.C. Chou Yueliang Wu, 2009. Professor Kuang Chao Chou, also known as Guang Zhao Zhou, is the former President of the Chinese Academy of Sciences. He has been elected as the Academician of the Chinese Academy of Sciences, Foreign Associate of the US National Academy of Sciences, Fellow of the Third World Academy of Science, Foreign Member of the Soviet Russian Academy of Sciences, Czechoslovak Academy of Sciences, Bulgarian Academy of Sciences, Romania Academy of Sciences, Mongolian Academy of Sciences, the European Academy of Arts, Sciences, and Humanities, Membre fondateur Académie Francophone d'Ingenieurs. He also served as the director of the Institute of Theoretical Physics at the Chinese Academy of Sciences, the Dean of the Science School of Tsinghua University, the Chairman of the China Association for Sciences and Technology, the President of the Pacific Science Association, Vice President of the Third World Academy of Sciences. Zhou is a first-rate physicist, broad, powerful, and very quick in grasping new ideas. His style of doing physics reminds me of that of Landau, Salam, and of Teller, C. N. Yang. His published papers have won uniformly high praises by the international scientific community, and his articles are always written with depth and elegance. T. D. Lee. This volume

presents a collection of selected papers written by Prof Chou The papers are organized into four parts according to the subject of research areas and the language of publishing journals Part I in English and Part III in Chinese are papers on field theories particle physics and nuclear physics Part II in English and Part IV in Chinese are papers on statistical physics and condensed matter physics From the published papers it illustrates and is clearly evident how Prof Chou was constantly at the frontiers of theoretical physics in various periods and carried out creative research works experimenting with initial ideas and motivations as well as how he has driven and worked in different key research directions of theoretical physics all for which he has made significant contributions to various interesting research areas and interdisciplinary fields

Software Engineering and Information Technology - Proceedings of the 2015 International Conference (seit2015) Xiaolong Li, 2015-12-17 This book consists of sixty seven selected papers presented at the 2015 International Conference on Software Engineering and Information Technology SEIT2015 which was held in Guilin Guangxi China during June 26 28 2015 The SEIT2015 has been an important event and has attracted many scientists engineers and researchers from academia government laboratories and industry internationally The papers in this book were selected after rigorous review SEIT2015 focuses on six main areas namely Information Technology Computer Intelligence and Computer Applications Algorithm and Simulation Signal and Image Processing Electrical Engineering and Software Engineering SEIT2015 aims to provide a platform for the global researchers and practitioners from both academia as well as industry to meet and share cutting edge development in the field This conference has been a valuable opportunity for researchers to share their knowledge and results in theory methodology and applications of Software Engineering and Information Technology

Optimization and Inverse Problems in Electromagnetism Marek Rudnicki, Slawomir Wiak, 2013-04-17 From 12 to 14 September 2002 the Academy of Humanities and Economics AHE hosted the workshop Optimization and Inverse Problems in Electromagnetism After this bi annual event a large number of papers were assembled and combined in this book During the workshop recent developments and applications in optimization and inverse methodologies for electromagnetic fields were discussed The contributions selected for the present volume cover a wide spectrum of inverse and optimal electromagnetic methodologies ranging from theoretical to practical applications A number of new optimal and inverse methodologies were proposed There are contributions related to dedicated software Optimization and Inverse Problems in Electromagnetism consists of three thematic chapters covering General papers survey of specific aspects of optimization and inverse problems in electromagnetism Methodologies Industrial Applications The book can be useful to students of electrical and electronics engineering computer science applied mathematics PhD level and to researchers interested in the topic

Popular Photography, 1999-07

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