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APRIL EXAMINATION

NATIONAL CERTIFICATE

ENGINEERING SCIENCE N3

(15070418)

2 April 2014 (Y-Paper)

13:00–16:00

REQUIREMENTS: Properties of water and steam (BOE 173)

Calculators may be used

This question paper consists of 8 pages, 1 information sheet and 1 formula sheet
of 2 pages.

April 2011 Engineering Science N3

Sharon C. Glotzer



April 2011 Engineering Science N3:

SOFSEM 2011: Theory and Practice of Computer Science Ivana Cerná, Tibor Gyimóthy, Juraj Hromkovič, Keith Jeffery, Rastislav Kralovic, Marko Vukolic, Stefan Wolf, 2011-01-10 This book constitutes the refereed proceedings of the 37th Conference on Current Trends in Theory and Practice of Computer Science SOFSEM 2011 held in Nov Smokovec Slovakia in January 2011 The 41 revised full papers presented together with 5 invited contributions were carefully reviewed and selected from 122 submissions SOFSEM 2011 was organized around the following four tracks foundations of computer science software systems and services processing large datasets and cryptography security and trust ICIME 2011-Proceedings of the 2nd International Conference on Information Management and Evaluation Ken Grant, Following on from the continued success of the European Conference on Information Management and Evaluation we are delighted at the Ted Rogers School of Management Ryerson University to be able to host the 2nd International Conference on Information Management and Evaluation ICIME 2011 ICIME aims to bring together individuals researching and working in the broad field of information management including information technology evaluation We hope that this year s conference will provide you with plenty of opportunities to share your expertise with colleagues from around the world This year s opening keynote address will be delivered by Dr Catherine Middleton Ted Rogers School of Information Technology Management Ryerson University Toronto Canada

Informatics Engineering and Information Science Azizah Abd Manaf, Akram Zeki, Mazdak Zamani, Suriayati Chuprat, Eyas El-Qawasmeh, 2011-11-10 This 4 Volume Set CCIS 0251 CCIS 0254 constitutes the refereed proceedings of the International Conference on Informatics Engineering and Information Science ICIEIS 2011 held in Kuala Lumpur Malaysia in November 2011 The 210 revised full papers presented together with invited papers in the 4 volumes were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on e learning information security software engineering image processing algorithms artificial intelligence and soft computing e commerce data mining neural networks social networks grid computing biometric technologies networks distributed and parallel computing wireless networks information and data management web applications and software systems multimedia ad hoc networks mobile computing as well as miscellaneous topics in digital information and communications

Informatics Engineering and Information Science, Part II Azizah Abd Manaf, Akram Zeki, Mazdak Zamani, Suriayati Chuprat, Eyas El-Qawasmeh, 2011-11-11 This 4 Volume Set CCIS 0251 CCIS 0254 constitutes the refereed proceedings of the International Conference on Informatics Engineering and Information Science ICIEIS 2011 held in Kuala Lumpur Malaysia in November 2011 The 210 revised full papers presented together with invited papers in the 4 volumes were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on e learning information security software engineering image processing algorithms artificial intelligence and soft computing e commerce data mining neural networks social networks grid computing biometric technologies networks distributed and parallel computing wireless networks

information and data management web applications and software systems multimedia ad hoc networks mobile computing as well as miscellaneous topics in digital information and communications **Proceedings of the Multi-Conference 2011**
Himanshu B. Soni, Apurva Shah, 2011-06-06 The International Conference on Signals Systems and Automation ICSSA 2011 aims to spread awareness in the research and academic community regarding cutting edge technological advancements revolutionizing the world The main emphasis of this conference is on dissemination of information experience and research results on the current topics of interest through in depth discussions and participation of researchers from all over the world The objective is to provide a platform to scientists research scholars and industrialists for interacting and exchanging ideas in a number of research areas This will facilitate communication among researchers in different fields of Electronics and Communication Engineering The International Conference on Intelligent System and Data Processing ICISD 2011 is organized to address various issues that will foster the creation of intelligent solutions in the future The primary goal of the conference is to bring together worldwide leading researchers developers practitioners and educators interested in advancing the state of the art in computational intelligence and data processing for exchanging knowledge that encompasses a broad range of disciplines among various distinct communities Another goal is to promote scientific information interchange between researchers developers engineers students and practitioners working in India and abroad

Informatics Engineering and Information Science, Part III Azizah Abd Manaf, Shamsul Sahibuddin, Rabiah Ahmad, Salwani Mohd Daud, Eyas El-Qawasmeh, 2011-11-10 This 4 Volume Set CCIS 0251 CCIS 0254 constitutes the refereed proceedings of the International Conference on Informatics Engineering and Information Science ICIEIS 2011 held in Kuala Lumpur Malaysia in November 2011 The 210 revised full papers presented together with invited papers in the 4 volumes were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on e learning information security software engineering image processing algorithms artificial intelligence and soft computing e commerce data mining neural networks social networks grid computing biometric technologies networks distributed and parallel computing wireless networks information and data management web applications and software systems multimedia ad hoc networks mobile computing as well as miscellaneous topics in digital information and communications *Intelligent Data Engineering and Automated Learning -- IDEAL 2011* Hujun Yin, Wenjia Wang, Victor J. Rayward-Smith, 2011-08-30 This book constitutes the refereed proceedings of the 12th International Conference on Intelligent Data Engineering and Automated Learning IDEAL 2011 held in Norwich UK in September 2011 The 59 revised full papers presented were carefully reviewed and selected from numerous submissions for inclusion in the book and present the latest theoretical advances and real world applications in computational intelligence **International Assessment of Research and Development in Simulation-based Engineering and Science** Sharon C. Glotzer, 2011 Simulation Based Engineering and Science SBE S cuts across disciplines showing tremendous promise in areas from storm prediction and climate modeling to understanding

the brain and the behavior of numerous other complex systems In this groundbreaking volume nine distinguished leaders assess the latest research trends as a result of 52 site visits in Europe and Asia and hundreds of hours of expert interviews and discuss the implications of their findings for the US government The authors conclude that while the US remains the quantitative leader in SBE S research and development it is very much in danger of losing that edge to Europe and Asia Commissioned by the National Science Foundation this multifaceted study will capture the attention of Fortune 500 companies and policymakers Distinguished contributors Sharon C Goltzer University of Michigan Ann Arbor USA Sangtae Kim Morgridge Institute for Research USA Peter T Cummings Vanderbilt University USA and Oak Ridge National Laboratory USA Abhijit Deshmukh Texas A M University USA Martin Head Gordon University of California Berkeley USA George Em Karniadakis Brown University USA Linda Petzold University of California Santa Barbara USA Celeste Sagui North Carolina State University USA Masanobu Shinozuka University of California Irvine USA

Proceedings of the 2011 International Conference on Informatics, Cybernetics, and Computer Engineering (ICCE2011) November 19-20, 2011, Melbourne, Australia Liangzhong Jiang, 2011-11-24 The volume includes a set of selected papers extended and revised from the International Conference on Informatics Cybernetics and Computer Engineering A computer network often simply referred to as a network is a collection of computers and devices interconnected by communications channels that facilitate communications and allows sharing of resources and information among interconnected devices Put more simply a computer network is a collection of two or more computers linked together for the purposes of sharing information resources among other things Computer networking or Data Communications Datacom is the engineering discipline concerned with computer networks Computer networking is sometimes considered a sub discipline of electrical engineering telecommunications computer science information technology and or computer engineering since it relies heavily upon the theoretical and practical application of these scientific and engineering disciplines Networks may be classified according to a wide variety of characteristics such as medium used to transport the data communications protocol used scale topology organizational scope etc Electronics engineering also referred to as electronic engineering is an engineering discipline where non linear and active electrical components such as electron tubes and semiconductor devices especially transistors diodes and integrated circuits are utilized to design electronic circuits devices and systems typically also including passive electrical components and based on printed circuit boards The term denotes a broad engineering field that covers important subfields such as analog electronics digital electronics consumer electronics embedded systems and power electronics Electronics engineering deals with implementation of applications principles and algorithms developed within many related fields for example solid state physics radio engineering telecommunications control systems signal processing systems engineering computer engineering instrumentation engineering electric power control robotics and many others ICCE 2011 Volume 3 is to provide a forum for researchers educators engineers and government officials involved in the general areas of Computer Engineering

and Electronic Engineering to disseminate their latest research results and exchange views on the future research directions of these fields 99 high quality papers are included in the volume Each paper has been peer reviewed by at least 2 program committee members and selected by the volume editor Special thanks to editors staff of association and every participants of the conference It s you make the conference a success We look forward to meeting you next year

Computing Handbook, Third Edition Teofilo Gonzalez,Jorge Diaz-Herrera,Allen Tucker,2014-05-07 Computing Handbook Third Edition Computer Science and Software Engineering mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery ACM and the IEEE Computer Society IEEE CS Written by established leading experts and influential young researchers the first volume of this popular handbook examines the elements involved in designing and implementing software new areas in which computers are being used and ways to solve computing problems The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals Like the second volume this first volume describes what occurs in research laboratories educational institutions and public and private organizations to advance the effective development and use of computers and computing in today s world Research level survey articles provide deep insights into the computing discipline enabling readers to understand the principles and practices that drive computing education research and development in the twenty first century

Science John Michels (Journalist),2012 Intelligent Computing and Information Science Ran Chen,2010-12-23 This two volume set CCIS 134 and CCIS 135 constitutes the refereed proceedings of the International Conference on Intelligent Computing and Information Science ICICIS2011 held in Chongqing China in January 2011 The 226 revised full papers presented in both volumes CCIS 134 and CCIS 135 were carefully reviewed and selected from over 600 initial submissions The papers provide the reader with a broad overview of the latest advances in the field of intelligent computing and information science

Gendered Occupational Differences in Science, Engineering, and Technology Careers Prescott, Julie,Bogg, Jan,2012-09-30 This book provides an overview of women in male dominated fields specifically in science engineering and technology and examines the contributing factors in this concern Provided by publisher

Software Engineering and Formal Methods Gilles Barthe,Alberto Pardo,Gerardo Schneider,2011-10-21 This book constitutes the refereed proceedings of the 9th International Conference on Software Engineering and Formal Methods SEFM 2011 held in Montevideo Uruguay in November 2011 The 22 revised regular papers presented together with 1 short paper 2 tool papers and 4 keynote talks were carefully reviewed and selected from 105 initial abstracts and 85 full submissions Besides the regular session the conference held a special track devoted to Modeling for Sustainable Development with 5 accepted papers selected from 7 submissions that are also part of this volume The aim of SEFM is to advance the state of the art in formal methods to scale up their application in software industry and to encourage their integration with practical engineering methods

Ontology-based Application Integration Heiko Paulheim,2011-09-08

Ontology based Application Integration introduces UI level User Interface Level application integration and discusses current problems which can be remedied by using ontologies It shows a novel approach for applying ontologies in system integration While ontologies have been used for integration of IT systems on the database and on the business logic layer integration on the user interface layer is a novel field of research This book also discusses how end users not only developers can benefit from semantic technologies Ontology based Application Integration presents the development of a software framework including a detailed ontology about user interfaces and interactions This includes a running case study of a real world integrated emergency management system The last section of this book discusses useful features that can be built on top of the framework for improving the user experience with future integrated information systems Ontology based Application Integration is designed as a reference book for practitioners and researchers who understand and work with the principles of applying semantic web technologies to a software engineering problem This book will also make an excellent reference or secondary text book for advanced level students concentrating on computer science

5th European Conference of the International Federation for Medical and Biological Engineering 14 - 18 September 2011, Budapest, Hungary

Ákos Jobbágy,2012-02-02 This volume presents the 5th European Conference of the International Federation for Medical and Biological Engineering EMBEC held in Budapest 14 18 September 2011 The scientific discussion on the conference and in this conference proceedings include the following issues Signal Image Processing ICT Clinical Engineering and Applications Biomechanics and Fluid Biomechanics Biomaterials and Tissue Repair Innovations and Nanotechnology Modeling and Simulation Education and Professional

Artificial Intelligence and Computational Intelligence Hepu Deng,Duoqian

Miao,Jingsheng Lei,Fu Lee Wang,2011-09-25 This three volume proceedings contains revised selected papers from the Second International Conference on Artificial Intelligence and Computational Intelligence AICI 2011 held in Taiyuan China in September 2011 The total of 265 high quality papers presented were carefully reviewed and selected from 1073 submissions The topics of Part III covered are machine vision natural language processing nature computation neural computation neural networks particle swarm optimization pattern recognition rough set theory and support vector machine

Knowledge-Based and Intelligent Information and Engineering Systems, Part I Andreas Koenig,Andreas Dengel,Knut Hinkelmann,Koichi

Kise,Robert J. Howlett,Lakhmi C. Jain,2011-09-06 The four volume set LNAI 6881 LNAI 6884 constitutes the refereed proceedings of the 15th International Conference on Knowledge Based Intelligent Information and Engineering Systems KES 2011 held in Kaiserslautern Germany in September 2011 Part 1 The total of 244 high quality papers presented were carefully reviewed and selected from numerous submissions The 61 papers of Part 1 are organized in topical sections on artificial neural networks connectionists systems and evolutionary computation machine learning and classical AI agent multi agentsystems knowledge based and expert systems intelligent vision image processing and signal processing knowledge management ontologies and data mining

Visual Informatics: Sustaining Research and Innovations Halimah Badioze

Zaman, Peter Robinson, Maria Petrou, Patrick Olivier, Timothy K. Shih, Sergio Velastin, Ingela Nyström, 2011-11-04 The two volume set LNCS 7066 and LNCS 7067 constitutes the proceedings of the Second International Visual Informatics Conference IVIC 2011 held in Selangor Malaysia during November 9 11 2011 The 71 revised papers presented were carefully reviewed and selected for inclusion in these proceedings They are organized in topical sections named computer vision and simulation virtual image processing and engineering visual computing and visualisation and social computing In addition the first volume contains two keynote speeches in full paper length and one keynote abstract

Civil, Architecture and Environmental Engineering Jimmy C.M. Kao, Wen-Pei Sung, 2017-04-24 This two volume work contains the papers presented at the 2016 International Conference on Civil Architecture and Environmental Engineering ICCAE 2016 that was held on 4 6 November 2016 in Taipei Taiwan The meeting was organized by China University of Technology and Taiwan Society of Construction Engineers and brought together professors researchers scholars and industrial pioneers from all over the world ICCAE 2016 is an important forum for the presentation of new research developments exchange of ideas and experience and covers the following subject areas Structural Science Architecture Engineering Building Materials Materials Science Construction Equipment Mechanical Science Environmental Science Environmental Engineering Computer Simulation Computer and Electrical Engineering

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web sep 13 2021 english the model allows you vary the speed of both the ice and mg2 mg2 is the larger of the 2 electric motor generators and is also referred to as the traction motor because its speed rpm or revolutions per minute has a fixed relationship to the speed of the wheels addeddate 2021 09 13 22 22 27 emulator ruffle swf

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web the diagram below is a schematic of the prius powertrain with detail in particular i have grossly simplified the way in which the internal combustion engine ice drives the planet gears in the power split device psd and the way that the ring gear is connected to the silent chain sprocket and motor generator 2 mg2 it is

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web the power split device can operate the vehicle with electric motor power and the ic engine separately or can also combine the power from both sources it also acts as a continuously variable transmission cvt and eliminates the need for any manual or automatic transmission

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web power split device which is a single pg in this paper in this section the basic mechanisms of a single pg and possible configurations are described for further developments in clutch placements fig 1 shows a pg and its equivalent lever diagram 15 the three nodes on the lever diagram represent the ring gear carrier

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web jul 18 2016 model four touring perhaps this belongs in the newbie forum but i m trying to understand the functioning of the psd i understand that initially mg2 may power the car with the ice stopped this means that mg1 is turning and because it is a permanent magnet device it should be generating power

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web feb 10 2015 i ran across this page yesterday and was fascinated by the inner workings of the power split device psd i also noticed that there was enough information there for me to put together an animation and working interactive demo of the psd with controls for input from ice and mg2 so i spent a couple hours putting it together in maya

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web nov 6 2016 introduction many resources and threads exist that describe the prius power split device they correctly describe how rpms can be calculated and how torque is split but i did not find any that would correctly describe how the power is split the solution seems easy at first power is rpm multiplied by torque

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web the power split device the prius transmission includes a special gear set that toyota call the power split device psd this is an epicyclic or planetary gear similar to those used in automatic transmissions however its use in the prius is very different as i hope to explain

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web apr 10 2008 this diagram makes a very nice demonstration about how the mg1 goes from thru 0 at about 65 mph per this diagram to it is a very gradual motion if one is watching the speed of the car and that transition thru 0 should not be stressing the gear components imo in normal operation

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