



higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

APRIL EXAMINATION

ENGINEERING SCIENCE N3

30 MARCH 2016

This marking guideline consists of 11 pages.

April Examination 2014 2 April Engineering Science

Frank Dunnivant



April Examination 2014 2 April Engineering Science:

Scriptinformatics Dr. habil. Gábor Hosszú, 2021-02-05 Scripts writing systems usually belong to specific languages and have temporal spatial and cultural characteristics The evolution of scripts has been the subject of research for a long time This is probably because the long term development of human thinking is reflected in the surviving script relics many of which are still undeciphered today The book presents the study of the script evolution with the mathematical tools of systematics phylogenetics and bioinformatics In the research described the script is the evolutionary taxonomic unit taxon which is analogous to the concept of biological species Among the methods of phylogenetics phenetics classifies the investigated taxa on the basis of their morphological similarity and does not primarily examine genealogical relationships Due to the scarcity of morphological diversity of scripts features random coincidences of evolution independent features are much more common in scripts than in biological species thus phenetic modelling based solely on morphological features can lead to erroneous results For this reason phenetic modeling has been extended with evolutionary considerations thereby allowing the modelling uncertainties observed in the script evolution to be addressed due to the large number of random coincidences homoplasies characterizing each script The book describes an extended phenetic method developed to investigate the script evolution This data driven approach helps to reduce the impact of the uncertainties inherent in the phenetic model due to the large number of homoplasies that occur during the evolution of scripts The elaborated phenetic and evolutionary analyses were applied to the Rovash scripts used on the Eurasian Steppe Grassland including the Turkic Rovash Turkic Runic runiform and the Székely Hungarian Rovash The evaluation of the extended phenetic model of the scripts the various phenograms the script spectra and the group spectra helped to reconstruct the main ancestors and evolutionary stages of the investigated scripts Environmental Success Stories Frank Dunnivant, 2017-03-21 Unlike many titles on environmental issues that portend a dark future Environmental Success Stories delves into the most daunting ecological and environmental challenges humankind has faced and shows how scientists citizens and a responsive public sector have dealt with them successfully In addition to presenting the basic chemical and environmental science underlying problems like providing clean drinking water removing DDT and lead from agriculture and our homes and curtailing industrial pollution this book also discusses the political actors agency regulators and community leaders who have collaborated to enact effective legislation Sharing the stories of the people organizations and governments who have addressed these problems successfully Frank M Dunnivant explains how we might confront the world's largest and most complex environmental crisis climate change Now is the time for rededicated scientific exploration and enlightened citizen action to save our environment and Dunnivant's book offers a stirring call to action **Production Management and Engineering Sciences** Milan Majerník, Naqib Daneshjo, Martin Bosák, 2015-11-09 These are the proceedings of the International Conference on Engineering Science and Production Management 16th 17th April 2015 Tatranská Trávnica High

Tatras Mountains Slovak Republic The proceedings contain articles focusing on Production Management Logistics Industrial development sustainable production Planning management and pr The 6th Mechanical Engineering, Science and Technology (MEST 2022) International Conference Taurista Perdana Syawitri, Dessy Ade Pratiwi, Umami Kultsum, Dediary Prasetya, Muttaqin Rahmat Pangaribawa, Tsulis Iqbal, Fadhilla Tri Nugrahaeni, Arinda Soraya Putri, Agus Dwi Anggono, 2023-04-16 This is an open access book MEST2022 invites all potential authors from universities and various organisations to submit papers in the area of mechanical manufacturing materials sciences and related interdisciplinary engineering fields This conference is part of a conference program called International Summit on Science Technology and Humanity ISETH 2022 Organized by Universitas Muhammadiyah Surakarta The 6th Mechanical Engineering Science and Technology MEST2022 International conference is an annual the Mechanical Department of Universitas Muhammadiyah Surakarta event All possible writers from universities and other organizations are invited to submit papers The conference is a forum for academic exchange that provides a prompt presentation of articles on experimental numerical and theoretical studies that shed light on the critical topics of mechanical thermal fluid and aerothermodynamics internal flow heat and mass transfer multiphase flow turbulence modelling combustion engineering thermodynamics thermophysical properties of matter measurement and visualization techniques Contributions range from intriguing and significant research immediately applicable to industry development or practice to high level student textbooks explanations distribution of technology and good practice Autonomous Drones Fouad Sabry, 2021-04-10 What Is Autonomous Drone An autonomous drone can conduct a safe flight without the intervention of a pilot It does so with the help of artificial intelligence and many other emerging technologies enabling it to cope with all kinds of unforeseen and unpredictable emergency situations How You Will Benefit Answering the public top 100 questions about autonomous drones with insight validation and creativity Real world examples for the usage of drones in 38 industries and 21 corporations Glossary with 187 terms serves as a complete list of essential drone terms for pilots professionals and enthusiasts 17 appendices to briefly explain 266 emerging technology in each industry to have 360 degree full understanding of drones technologies Who This Book Is For Professionals undergraduate and graduate students enthusiasts hobbyists and those who want to go beyond basic knowledge or information for any kind of drone **Graphic Showbiz** Adwoa Serwaa Bonsu, 2010-01-28 *Green Services Engineering, Optimization, and Modeling in the Technological Age* Liu, Xiaodong, Li, Yang, 2015-07-07 Concerns surrounding environmental sustainability have led to an increase of interest in environmentally friendly systems In the ICT realm attention has been largely paid to green aspects of hardware however it is equally necessary to address this issue from the software perspective Green Services Engineering Optimization and Modeling in the Technological Age is a valuable reference source of the latest scholarly research on the implementation of green processes into software systems contributing novel principles methodologies and tools to improve software development Featuring comprehensive and timely coverage on various areas in

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University Responsibility for the Adjudication of Research Misconduct Stefan Franzen,2021-05-12 This book offers a scientific whistleblower s perspective on current implementation of federal research misconduct regulations It provides a narrative of general interest that relates current cases of research ethics to philosophical historical and sociological accounts of fraud in scientific research The evidence presented suggests that the problems of falsification and fabrication remain as great as ever but hidden because the current system puts universities in charge of investigations and permits them to use confidentiality regulations to hide the outcomes of investigations The book documents the significant conflict of interest that arises because federal regulation gives universities the responsibility to conduct investigations of their own faculty with severely limited oversight The book is intended for young research scientists or anyone who wishes to understand the challenges faced by scientists in the workplace today The central thread in the book is an exclusive account of an experienced research scientist who was the first to expose the facts that led to the longest running research misconduct investigation in the history of the National Science Foundation **Energy Research Abstracts** ,1980

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