

## STAGE 2 MATHEMATICAL APPLICATIONS

### FOLIO - INVESTIGATION 1

#### Purpose

To demonstrate your ability to:

- use a range of mathematical skills from the topic of Matrices to investigate a problem set in a context
- apply your knowledge, skills, and problem-solving strategies to develop a model from which you can make predictions.

#### Description of assessment

Use your knowledge of transition matrices to investigate the level of support that the fast-food outlets in your regional city could expect to have in the future. Using a justified sampling method and a survey of your design, collect information on the fast food habits of a sample of residents from the local area. Make predictions using transition matrix methods about how many of your sample will purchase their next fast food meal at each of the fast food outlets being investigated. Discuss the long term prospects for each of the fast food outlets in the regional city, including a discussion of the reliability of your answers and any assumptions that have been made. Discuss the limitations of extrapolating the model that you have created to make predictions about the population of your regional city. All solutions are to be supported with calculations and appropriate representation and notation.

#### Assessment conditions

You have three weeks to complete this assessment task. Use of technology is required. Your investigation should include:

- (a) an introduction that demonstrates your understanding of the problem to be explored
- (b) evidence of the developed solution and the solution reached
- (c) analysis and interpretation of the results
- (d) a conclusion
- (e) acknowledgements, appendixes, and bibliography (as required).

Learning Requirements	Assessment Design Criteria	Capabilities
<ol style="list-style-type: none"> <li>1. Understand fundamental mathematical concepts and relationships.</li> <li>2. Identify, collect, and organise mathematical information relevant to investigating and finding solutions to questions/problems taken from social, scientific, economic, or historical contexts.</li> <li>3. Recognise and apply the mathematical techniques needed when analysing and finding a solution to a question/problem in context.</li> <li>4. Make informed use of electronic technology to provide numerical results and graphical representations.</li> <li>5. Interpret results, draw conclusions, and reflect on the reasonableness of these in the context of the question/problem.</li> <li>6. Communicate mathematical ideas and reasoning using appropriate language and representations.</li> <li>7. Work both independently and cooperatively in planning, organising, and carrying out mathematical activities.</li> </ol>	<p><b>Mathematical Knowledge and Skills and Their Application</b></p> <p>The specific features are as follows:</p> <ul style="list-style-type: none"> <li>• MKSA1 Knowledge of content and understanding of mathematical concepts and relationships.</li> <li>• MKSA2 Use of mathematical algorithms and techniques (implemented electronically where appropriate) to find solutions to routine and complex questions.</li> <li>• MKSA3 Application of knowledge and skills to answer questions set in applied contexts.</li> </ul> <p><b>Mathematical Modelling and Problem-solving</b></p> <p>The specific features are as follows:</p> <ul style="list-style-type: none"> <li>• MMP1 Application of mathematical models.</li> <li>• MMP2 Development of mathematical results for problems set in applied contexts.</li> <li>• MMP3 Interpretation of the mathematical results in the context of the problem.</li> <li>• MMP4 Understanding of the reasonableness and possible limitations of the interpreted results, and recognition of assumptions made.</li> </ul> <p><b>Communication of Mathematical Information</b></p> <p>The specific features are as follows:</p> <ul style="list-style-type: none"> <li>• CM1 Communication of mathematical ideas and reasoning to develop logical arguments.</li> <li>• CM2 Use of appropriate mathematical notation, representations, and terminology.</li> </ul>	<p>Communication</p> <p>Citizenship</p> <p>Personal Development</p> <p>Work</p> <p>Learning</p>

# Stage 2 Mathematical Applications

**Berinderjeet Kaur, Jaguthsing Dindyal**



## **Stage 2 Mathematical Applications:**

Mathematical Applications Anna Bassani, 2007      **Mathematical Applications and Modelling** Berinderjeet

Kaur, Jaguthsing Dindyal, 2010 Mathematical Applications and Modelling is the second in the series of the yearbooks of the Association of Mathematics Educators in Singapore. The book is unique as it addresses a focused theme on mathematics education. The objective is to illustrate the diversity within the theme and present research that translates into classroom pedagogies. The book comprising of 17 chapters illuminates how application and modelling tasks may help develop the capacity of students to use mathematics in their present and future lives. Several renowned international researchers in the field of mathematical modelling have published their work in the book. The chapters are comprehensive and laden with evidence-based examples for both mathematics educators and classroom teachers. The book is an invaluable contribution towards the emerging field of research in mathematical applications and modelling. It is a must read for graduate research students and mathematics educators.

**Fundamentals of Multicore Software Development** Victor Pankratius, Ali-Reza Adl-Tabatabai, Walter Tichy, 2011-12-12 With multicore processors now in every computer server and embedded device the need for cost-effective reliable parallel software has never been greater. By explaining key aspects of multicore programming Fundamentals of Multicore Software Development helps software engineers understand parallel programming and master the multicore challenge.

*Foundation Numeracy in Context* David Tout, Gary Motteram, 2006 Foundation Numeracy in Context describes an approach to teaching mathematics based on applied and contextual learning principles. This means that the teaching and learning of mathematics proceeds from a contextual task-based and investigative point of view where the mathematics involved is developed from a modelled situation or practical task. Practical investigations and projects are principle vehicles for student learning in such an approach. This text is written for teachers working with students who have become disengaged from learning mathematics during the middle to latter years of secondary schooling and will likely have had limited success with mathematics. The approach used will be helpful for teachers of students who need a practical rather than formal mathematical background for their everyday life skills and further education training or career aspirations. The text illustrates how this approach works through some sample contexts such as cars and driving, sport, cooking and catering and draws together mathematics from the areas of number, measurement, space, data and statistics and algebra. Publisher

Mathematical Applications, 2007      **Unlocking Mathematics Teaching** Valsa Koshy, Jean Murray, 2011-03-28 Now in a fully updated second edition Unlocking Mathematics Teaching is a comprehensive guide to teaching mathematics in the primary school. Combining theory and practice, selected experts outline the current context of mathematics education. They suggest strategies, activities and examples to help develop readers' understanding and confidence in delivering the curriculum. The book combines an accessible blend of subject knowledge and pedagogy and its key features include: Advice on teaching mathematics to high and low attainers; Guidance on teaching mental maths; Ideas for incorporating ICT; Guidance on

assessment in mathematics education Teaching problem solving Numerical and non numerical examples Updated references taking into account the Williams Report This book will be of interest to all primary education students and practising teachers looking to increase their confidence and effectiveness in delivering the mathematics curriculum

**Handbook on Digital Twin and Artificial Intelligence Techniques for Rail Applications** Maksym Spiryagin, Stefano Bruni, Colin Cole, 2025-06-17 With contributions from experts from around the world this handbook aims to systemize the existing experience and knowledge that can be used to the development of more efficient and controlled railway systems As a result this handbook showcases the modern methods methodologies and frameworks for the development of DT and AI architectures and apparatus in the area of the existing railway systems and transport engineering tasks The chapters cover such varied and specialized topics as the processes related to the transformation of a physical twin into a digital twin the application of data driven and physics based simulation approaches in the development of digital twins asset management application tasks with the implementation of DT and AI and the experimental and field applications of the DT and AI concepts and technologies in railway transport system design and predictive maintenance tasks Handbook on Digital Twin and Artificial Intelligence Techniques for Rail Applications is essential reading for engineers practitioners and researchers involved in the development of railway transport and transit systems

*Application of Big Data, Blockchain, and Internet of Things for Education Informatization* Yinjun Zhang, Nazir Shah, 2024-06-30 The five volume set LNICST 580 584 constitutes the proceedings of the Third EAI International Conference on Application of Big Data Blockchain and Internet of Things for Education Informatization BigIoT EDU 2023 held in Liuzhou China during August 29 31 2023 The 272 full papers presented in these proceedings were carefully reviewed and selected from 718 submissions With a primary focus on research fields such as Digitization of education Smart classrooms and Massive Online Open Courses MOOCs these papers are organized in the following topical sections across the five volumes Part I Application of data mining in smart education Application of intelligent algorithms in English teaching Part II Application of decision tree algorithm in intelligent management system of universities Research on the application of Big data in smart teaching Part III Exploration of the application of computer aided technology in intelligent translation Application of neural network algorithms in intelligent teaching Application of artificial intelligence algorithms in the field of smart education Part IV Research on smart teaching in deep learning Research and application of recommendation algorithms in personalized intelligent education Application of cloud computing in intelligent teaching resource library Application research of computer aided online intelligent teaching Part V Application and practice of new media in smart teaching Application of clustering algorithm in intelligent education resource library Application of association rule algorithm in intelligent education system

*Safety and Reliability. Theory and Applications* Marko Cepin, Radim Bris, 2017-06-14 Safety and Reliability Theory and Applications contains the contributions presented at the 27th European Safety and Reliability Conference ESREL 2017 Portoro Slovenia June 18 22 2017 The book covers a wide

range of topics including Accident and Incident modelling Economic Analysis in Risk Management Foundational Issues in Risk Assessment and Management Human Factors and Human Reliability Maintenance Modeling and Applications Mathematical Methods in Reliability and Safety Prognostics and System Health Management Resilience Engineering Risk Assessment Risk Management Simulation for Safety and Reliability Analysis Structural Reliability System Reliability and Uncertainty Analysis Selected special sessions include contributions on the Marie Skłodowska-Curie innovative training network in structural safety risk approaches in insurance and finance sectors dynamic reliability and probabilistic safety assessment Bayesian and statistical methods reliability data and testing organizational factors and safety culture software reliability and safety probabilistic methods applied to power systems socio-technical economic systems advanced safety assessment methodologies extended Probabilistic Safety Assessment reliability availability maintainability and safety in railways theory big data risk analysis and management and model based reliability and safety engineering Safety and Reliability Theory and Applications will be of interest to professionals and academics working in a wide range of industrial and governmental sectors including Aeronautics and Aerospace Automotive Engineering Civil Engineering Electrical and Electronic Engineering Energy Production and Distribution Environmental Engineering Information Technology and Telecommunications Critical Infrastructures Insurance and Finance Manufacturing Marine Industry Mechanical Engineering Natural Hazards Nuclear Engineering Offshore Oil and Gas Security and Protection Transportation and Policy Making

Distributed Control Applications Alois Zöttl, Thomas Strasser, 2017-12-19 Distributed Control Applications Guidelines Design Patterns and Application Examples with the IEC 61499 discusses the IEC 61499 reference architecture for distributed and reconfigurable control and its adoption by industry The book provides design patterns application guidelines and rules for designing distributed control applications based on the IEC 61499 reference model Moreover examples from various industrial domains and laboratory environments are introduced and explored *Power Systems: Modelling and Control Applications* A. J. Calvaer, 2014-05-23 The control of power systems and power plants is a subject of worldwide interest which continues to sustain a high level of research development and application Papers pertaining to areas directly related to power systems and representing the state of the art methods are included in this volume The topics covered include security analysis dynamic state estimation voltage control power plant control stability analysis data communication expert systems and training simulators for power plants This interchange between those involved in the research and those involved in the practical applications of new ideas and developments provide a comprehensive reference source for all involved in the power industry **Mathematical Applications** Senior Secondary Assessment Board of South Australia, 2001 *Aiming for an A in A-level Biology* Jo Ormisher, 2018-09-03 Exam Board AQA CCEA Edexcel OCR WJEC Eduqas Level A level Subject Biology First teaching September 2015 First exams Summer 2017 Master the skills you need to set yourself apart and hit the highest grades this year round course companion develops the higher order thinking skills that top achieving students possess

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*Information Technology and the Corporation of the 1990s* Thomas J. Allen, Michael S. Scott Morton, 1994-01-06 One of the most pathbreaking and influential business books of the 1990s is *The Corporation of the 1990s* by Michael Scott Morton Its expert view of how information technology would influence organizations and their ability to survive and prosper in the 1990s has become the benchmark of thinking about information technology Now in a supporting companion volume *Information Technology and the Corporation of the 1990s* makes available the research on which *The Corporation of the 1990s* was based The research was conducted at the Sloan School of Management at MIT by the Management in the 1990s program The program was funded by a group of 12 industrial and government sponsors from the United States and Britain which included American Express Digital Equipment Corporation Eastman Kodak British Petroleum MCI Communications General Motors U S Army ICL Ltd Internal Revenue Service Ernst Young BellSouth and CIGNA Corporation *Information Technology and the Corporation of the 1990s* aims to disseminate ideas on how organizations can manage the impact of information technology and also to raise issues and stimulate further thought by both academics and professionals The book is divided into three sections which cover the information technology revolution strategic options and organization and management responses It incorporates the work of many important scholars including Charles Jonscher Michael J Piore Thomas W Malone JoAnne Yates Robert I Benjamin Gary W Loveman Eric von Hippel Edgar H Schein Stanley M Besen Garth Saloner N Venkatraman Akbar Zaheer John C Henderson Jay C Coopridge Kevin Crowston Jeongsuk Koh Gordon Walker Laura Poppo John S Carroll Constance Perin Brian T Pentland John Chalykoff Lotte Bailyn D Eleanor Westney Sumantra Ghoshal John D C Little Thomas J Allen Oscar Hauptman Lisa M Lynch Paul Osterman Thomas A Kochan and John Paul MacDuffie

**Computational Intelligence and Mathematical Applications**  
Devendra Prasad, Suresh Chand Gupta, Anju Bhandari Gandhi, Stuti Mehla, Upasana Lakhina, 2024-08-29 It is with great pleasure to present the proceedings of the International Conference on Computational Intelligence and Mathematical Applications ICCIMA 2023 held on 21 22 December 2023 at Panipat Institute of Engineering and Technology Panipat This

conference brought scholars researchers professionals and intellectuals together from diverse fields to exchange ideas share insights and foster collaborations in Optimization Computational Intelligence and Mathematical Applications The ICCIMA 2023 served as a platform for contributors to demonstrate their latest findings discuss emerging trends and explore innovations to the problems that different disciplines are currently experiencing The conference s scope and depth of themes reflect our community s rich diversity of interests and levels of competence *Advances in Artificial Intelligence Application in Data Analysis and Control of Smart Grid* Xin Ning,Imr Fattah,Praveen Kumar Donta,Mohamed M.F. Darwish,2023-11-23

Smart grid SG is considered a form of intelligent system that allows the electric grid to perform its functions efficiently The SG is a network that allows for the flow of electrical energy and data where the data is used to make intelligent decisions in the operation of the electric grid Artificial intelligence AI techniques such as expert system ES Machine Learning ML and deep Learning DL have brought an advancing frontier in power electronics and power engineering with their powerful data processing capabilities The SG relies on the flow of data to make its intelligent control therefore AI technology is a perfect fit for the SG The application of AI technology in the SG has the potential to improve the intelligence of the SG This research topic is focused on ways of improving the data analysis and control of SG by leveraging technologies Manuscripts with the progress made in solving a range of miscellaneous and critical problems in SG by leveraging AI methods such as ES ML and DL methods are welcome Reviews and original research that describe the latest developments in this field are considered for publication in this research topic The scope of this Research Topic will include the following themes but are not limited to 1 Data driven and artificial intelligence approaches to enhancing flexibility and resilience of SG 2 Expert system Machine Learning and Deep Learning reinforcement learning and transfer learning for applications in SG 3 AI for development in ensuring high reliability and stability of electric power system with high penetration of renewable energy 4 AI for studies in operation protection integrated planning and control of SG systems 5 AI for development in diagnostics and diagnostics for SG 6 Health monitoring of a modern wind generation system using an adaptive neuro fuzzy system 7 Space vector fault pattern identification of a smart grid subsystem by neural mapping 8 Control techniques mathematical programming methods optimization techniques and metaheuristics applied in SG 9 AI and optimization techniques for green energy and carbon footprint 10 Novel applications of AI based smart grids in smart cities smart transportation smart healthcare and smart manufacturing **Advanced Control Techniques in Complex Engineering Systems: Theory and Applications**

Yuriy P. Kondratenko,Arkadii A. Chikrii,Vyacheslav F. Gubarev,Janusz Kacprzyk,2019-05-24 This book presents an authoritative collection of contributions by researchers from 16 different countries Austria Chile Georgia Germany Mexico Norway P R of China Poland North Macedonia Romania Russia Spain Turkey Ukraine the United Kingdom and United States that report on recent developments and new directions in advanced control systems together with new theoretical findings industrial applications and case studies on complex engineering systems This book is dedicated to Professor Vsevolod

Mykhailovych Kuntsevich an Academician of the National Academy of Sciences of Ukraine and President of the National Committee of the Ukrainian Association on Automatic Control in recognition of his pioneering works his great scientific and scholarly achievements and his years of service to many scientific and professional communities notably those involved in automation cybernetics control management and more specifically the fundamentals and applications of tools and techniques for dealing with uncertain information robustness non linearity extremal systems discrete control systems adaptive control systems and others Covering essential theories methods and new challenges in control systems design the book is not only a timely reference guide but also a source of new ideas and inspirations for graduate students and researchers alike Its 15 chapters are grouped into four sections a fundamental theoretical issues in complex engineering systems b artificial intelligence and soft computing for control and decision making systems c advanced control techniques for industrial and collaborative automation and d modern applications for management and information processing in complex systems All chapters are intended to provide an easy to follow introduction to the topics addressed including the most relevant references At the same time they reflect various aspects of the latest research work being conducted around the world and therefore provide information on the state of the art

*Applied Engineering Analysis* Tai-Ran Hsu, 2018-04-30 A resource book applying mathematics to solve engineering problems *Applied Engineering Analysis* is a concise textbook which demonstrates how to apply mathematics to solve engineering problems It begins with an overview of engineering analysis and an introduction to mathematical modeling followed by vector calculus matrices and linear algebra and applications of first and second order differential equations Fourier series and Laplace transform are also covered along with partial differential equations numerical solutions to nonlinear and differential equations and an introduction to finite element analysis The book also covers statistics with applications to design and statistical process controls Drawing on the author's extensive industry and teaching experience spanning 40 years the book takes a pedagogical approach and includes examples case studies and end of chapter problems It is also accompanied by a website hosting a solutions manual and PowerPoint slides for instructors Key features Strong emphasis on deriving equations not just solving given equations for the solution of engineering problems Examples and problems of a practical nature with illustrations to enhance student's self learning Numerical methods and techniques including finite element analysis Includes coverage of statistical methods for probabilistic design analysis of structures and statistical process control SPC *Applied Engineering Analysis* is a resource book for engineering students and professionals to learn how to apply the mathematics experience and skills that they have already acquired to their engineering profession for innovation problem solving and decision making

[Computer Software Applications in Chemistry](#) Peter C. Jurs, 1996-02-02 Intended specifically for practicing professionals and advanced students in chemistry and biochemistry this invaluable book covers the full range of the computer applications in these fields including numerical nonnumerical and graphics applications New material includes multiple linear regression using MREG principal components

analysis Monte Carlo integration parameterization of the force field and molecular modeling software Major areas covered include Error Statistics and the Floating Point Number System Curve Fitting Multiple Linear Regression Analysis Numerical Integration Numerical Solution of Differential Equations Matrix Methods and Linear Equation Systems Random Numbers and Monte Carlo Simulation Simplex Optimization Chemical Structure Information Handling Mathematical Graph Theory Substructure Searching Molecular Mechanics and Molecular Dynamics Pattern Recognition Artificial Intelligence and Expert Systems Spectroscopic Library Searching and Structure Elucidation Graphical Display of Data and of Molecules Whatever your area of research this comprehensive lucidly written book offers an indispensable resource of computer applications that will facilitate your work

**10th International Conference on Theory and Application of Soft Computing, Computing with Words and Perceptions - ICSCCW-2019** Rafik A. Aliev, Janusz Kacprzyk, Witold Pedrycz, Mo Jamshidi, Mustafa B. Babanli, Fahreddin M. Sadikoglu, 2019-11-19 This book presents the proceedings of the 10th Conference on Theory and Applications of Soft Computing Computing with Words and Perceptions ICSCCW 2019 held in Prague Czech Republic on August 27 28 2019 It includes contributions from diverse areas of soft computing and computing with words such as uncertain computation decision making under imperfect information neuro fuzzy approaches deep learning natural language processing and others The topics of the papers include theory and applications of soft computing information granulation computing with words computing with perceptions image processing with soft computing probabilistic reasoning intelligent control machine learning fuzzy logic in data analytics and data mining evolutionary computing chaotic systems soft computing in business economics and finance fuzzy logic and soft computing in earth sciences fuzzy logic and soft computing in engineering fuzzy logic and soft computing in material sciences soft computing in medicine biomedical engineering and pharmaceutical sciences Showcasing new ideas in the field of theories of soft computing and computing with words and their applications in economics business industry education medicine earth sciences and other fields it promotes the development and implementation of these paradigms in various real world contexts This book is a useful guide for academics practitioners and graduates

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