

MATHEMATICS N3 / INTRODUCTION TO ENGINEERING MATHEMATICS

QUESTION 1

(14 MARKS)

1.1 Factorise the following expressions as far as possible in prime factors:

1.1.1 $x^2(p - q) + 3x(q - p) - 18(p - q)$ (4)

1.1.2 $5(x + 1)^2 - 17(x + 1) + 6$ (3)

1.2 Simplify the following algebraic fractions:

1.2.1 $\frac{rp^2 - rq^2}{p^2 - 2pq + q^2} \div \frac{rp^2 - rp + rpq - rq}{p^2 - pq - p + q}$ (4)

1.3 Prove that $2x - 6$ is a factor of $2x^3 - 6x^2 + 4x - 12$ (3)

Engineering Mathematics N3 Of July 2014

**Long Cheng, Qingshan Liu, Andrey
Ronzhin**



Engineering Mathematics N3 Of July 2014:

Scientific Computing in Electrical Engineering Andreas Bartel, Markus Clemens, Michael Günther, E. Jan W. ter Maten, 2016-05-09 This book is a collection of selected papers presented at the 10th International Conference on Scientific Computing in Electrical Engineering SCEE held in Wuppertal Germany in 2014 The book is divided into five parts reflecting the main directions of SCEE 2014 1 Device Modeling Electric Circuits and Simulation 2 Computational Electromagnetics 3 Coupled Problems 4 Model Order Reduction and 5 Uncertainty Quantification Each part starts with a general introduction followed by the actual papers The aim of the SCEE 2014 conference was to bring together scientists from academia and industry mathematicians electrical engineers computer scientists and physicists with the goal of fostering intensive discussions on industrially relevant mathematical problems with an emphasis on the modeling and numerical simulation of electronic circuits and devices electromagnetic fields and coupled problems The methodological focus was on model order reduction and uncertainty quantification this book will appeal to mathematicians and electrical engineers it offers a valuable starting point for developers of algorithms programs who want learn about recent advances in other fields as well open problems coming from industry moreover be use representatives industry with an interest new program tools mathematical methods

Reliability Analysis and Asset Management of Engineering Systems Escola Politécnica da USP, Gilberto Francisco Martha de Souza, Arthur Henrique De Andrade Melani, Miguel Angelo De Carvalho Michalski, Renan Favarao Da Silva, 2021-09-24 Reliability Analysis and Asset Management of Engineering Systems explains methods that can be used to evaluate reliability and availability of complex systems including simulation based methods The increasing digitization of mechanical processes driven by Industry 4.0 increases the interaction between machines and monitoring and control systems leading to increases in system complexity For those systems the reliability and availability analyses are increasingly challenging as the interaction between machines has become more complex and the analysis of the flexibility of the production systems to respond to machinery failure may require advanced simulation techniques This book fills a gap on how to deal with such complex systems by linking the concepts of systems reliability and asset management and then making these solutions more accessible to industry by explaining the availability analysis of complex systems based on simulation methods that emphasise Petri nets Explains how to use a monitoring database to perform important tasks including an update of complex systems reliability Shows how to diagnose probable machinery based causes of system performance degradation by using a monitoring database and reliability estimates in an integrated way Describes practical techniques for the application of AI and machine learning methods to fault detection and diagnosis problems

Holographic Materials and Optical Systems Izabela Naydenova, Tsvetanka Babeva, Dimana Nazarova, 2017-03-22 Holographic Materials and Optical Systems covers recent research achievements in the areas of volume holographic optical elements and systems development of functionalized holographic recording materials and applications in holographic imaging and metrology

Designs of single and multiplexed volume holographic optical elements for laser beam shaping combining and redirection are covered and their properties are studied theoretically and experimentally The high impact of holography in imaging and metrology is demonstrated by applications spreading from thickness and surface measurements through antenna metrology and analyzing high density gradients in fluid mechanics to characterization of live objects in clinical diagnostics Novel functionalized materials used in dynamic or permanent holographic recording cover photopolymers photochromics photo thermo refractive glasses and hybrid organic inorganic media Advances in Neural Networks – ISSN 2016 Long Cheng, Qingshan Liu, Andrey Ronzhin, 2016-07-01 This book constitutes the refereed proceedings of the 13th International Symposium on Neural Networks ISSN 2016 held in St Petersburg Russia in July 2016 The 84 revised full papers presented in this volume were carefully reviewed and selected from 104 submissions The papers cover many topics of neural network related research including signal and image processing dynamical behaviors of recurrent neural networks intelligent control clustering classification modeling and forecasting evolutionary computation and cognition computation and spiking neural networks MATHEMATICAL COMBINATORICS, Vol.1 / 2019 Linfan Mao, The Mathematical Combinatorics International Book Series is a fully refereed international book series with ISBN number on each issue sponsored by the MADIS of Chinese Academy of Sciences and published in USA quarterly comprising 110 160 pages approx per volume which publishes original research papers and survey articles in all aspects of Smarandache multi spaces Smarandache geometries mathematical combinatorics non euclidean geometry and topology and their applications to other sciences International Journal of Mathematical Combinatorics, Volume 1, 2019 Linfan Mao, International J Mathematical Combinatorics is a fully refereed international journal Topics in detail to be covered are Smarandache multi spaces with applications to other sciences such as those of algebraic multi systems multi metric spaces Smarandache geometries Differential Geometry Geometry on manifolds Topological graphs Algebraic graphs Random graphs Combinatorial maps Graph and map enumeration Combinatorial designs Combinatorial enumeration Low Dimensional Topology Differential Topology Topology of Manifolds Geometrical aspects of Mathematical Physics and Relations with Manifold Topology Applications of Smarandache multi spaces to theoretical physics Applications of Combinatorics to mathematics and theoretical physics Mathematical theory on gravitational fields Mathematical theory on parallel universes Other applications of Smarandache multi space and combinatorics **Higher Education Response to Exponential Societal Shifts** Freeman, Jerrod P., Keller, Cari L., Cambiano, Renee L., 2020-06-26 Based on a structure developed centuries ago higher education systems are being challenged to alter their landscape and culture With a rapidly changing knowledge base job market and societal and community needs it is imperative that higher education systems remain adaptive and responsive However critical changes must still occur within the higher education system in order to accommodate these new societal needs Higher Education Response to Exponential Societal Shifts is a critical scholarly publication that provides cutting edge research on the

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Granular, Fuzzy, and Soft Computing Tsau-Young Lin,Churn-Jung Liao,Janusz Kacprzyk,2023-03-29 The first edition of the Encyclopedia of Complexity and Systems Science ECSS 2009 presented a comprehensive overview of granular computing GrC broadly divided into several categories Granular computing from rough set theory Granular Computing in Database Theory Granular Computing in Social Networks Granular Computing and Fuzzy Set Theory Grid Cloud Computing as well as general issues in granular computing In 2011 the formal theory of GrC was established providing an adequate infrastructure to support revolutionary new approaches to computer data science including the challenges presented by so called big data For this volume of ECSS Second Edition many entries have been updated to capture these new developments together with new chapters on such topics as data clustering outliers in data mining qualitative fuzzy sets and information flow analysis for security applications Granulations can be seen as a natural and ancient methodology deeply rooted in the human mind Many daily things are routinely granulated into sub things The topography of earth is granulated into hills plateaus etc space and time are granulated into infinitesimal granules and a circle is granulated into polygons of infinitesimal sides Such granules led to the invention of calculus topology and non standard analysis Formalization of general granulation was difficult but as shown in this volume great progress has been made in combining discrete and continuous mathematics under one roof for a broad range of applications in data science

Innovative Trends in Personalized Software Engineering and Information Systems Cleo Sgouropoulou,2020-08-04 This book Innovative Trends in Personalized Software Engineering and Information Systems The Case of Intelligent and Adaptive E learning Systems studies the development of personalized and knowledge based systems with the purpose of developing fully automated adaptive software mainly focusing on enhancing digital learning The authors cover several integral phases of software engineering and their application in the effective implementation of sophisticated learning technology systems Systems development and systems evaluation tailored to adaptive e learning are examined in depth More specifically intelligent and knowledge based techniques such as artificial neural networks fuzzy logic genetic algorithms pattern recognition learning analytics and data mining as well as evaluation frameworks adapted to digital learning software are presented This publication will be of interest to scientists from various disciplines including computer science artificial intelligence education and psychology and will help researchers working in computer science and engineering to build intelligent and adaptive learning technology systems by employing personalization techniques while

following the basic concepts of software engineering and information systems It will also serve as a valuable tool for junior and senior scientists supporting their research activities in the field of personalized and knowledge based software engineering and instructors will be able to use the book as a guide to the effective design and development of intelligent systems in education *Applied Mechanics Reviews* ,1987

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