

Subject – Math AA(Higher Level)
Topic – Algebra
Year – May 2021 – Nov 2022
Paper -1
Questions

Question 1

[Maximum mark: 18]

- (a) Express $-3 + \sqrt{3}i$ in the form $re^{i\theta}$, where $r > 0$ and $-\pi < \theta \leq \pi$. [5]

Let the roots of the equation $z^3 = -3 + \sqrt{3}i$ be u , v and w .

- (b) Find u , v and w expressing your answers in the form $re^{i\theta}$, where $r > 0$ and $-\pi < \theta \leq \pi$. [5]

On an Argand diagram, u , v and w are represented by the points U , V and W respectively.

- (c) Find the area of triangle UVW . [4]

- (d) By considering the sum of the roots u , v and w , show that
 $\cos \frac{5\pi}{18} + \cos \frac{7\pi}{18} + \cos \frac{17\pi}{18} = 0$. [4]

Question 2

[Maximum mark: 8]

- (a) Show that $\log_2(\cos 2x + 2) = \log_2 \sqrt{\cos 2x + 2}$. [3]

- (b) Hence or otherwise solve $\log_2(2 \sin x) = \log_2(\cos 2x + 2)$ for $0 < x < \frac{\pi}{2}$. [5]

Question 3

[Maximum mark: 5]

- (a) Show that $(2n - 1)^2 + (2n + 1)^2 = 8n^2 + 2$, where $n \in \mathbb{Z}$. [2]

- (b) Hence, or otherwise, prove that the sum of the squares of any two consecutive odd integers is even. [3]

Question 4

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Asymptotic Combinatorics with Application to Mathematical Physics V.A. Malyshev, A.M. Vershik, 2012-12-06 New and striking results obtained in recent years from an intensive study of asymptotic combinatorics have led to a new higher level of understanding of related problems the theory of integrable systems the Riemann Hilbert problem asymptotic representation theory spectra of random matrices combinatorics of Young diagrams and permutations and even some aspects of quantum field theory *Mathematical Modeling of Collective Behavior in Socio-Economic and Life Sciences* Giovanni Naldi, Lorenzo Pareschi, Giuseppe Toscani, 2010-08-12 Mathematical modeling using dynamical systems and partial differential equations is now playing an increasing role in the understanding of complex multi scale phenomena Behavior in seemingly different areas such as sociology economics and the life sciences can be described by closely related models Using examples from financial markets and modern warfare to the flocking of birds and the swarming of bacteria the collected research in this volume demonstrates the common methodological approaches and tools for modeling and simulating collective behavior The topics presented point toward new and challenging frontiers of applied mathematics making the volume a useful reference text for applied mathematicians physicists biologists and economists involved in the modeling of socio economic systems *A Systemic Perspective on Cognition and Mathematics* Jeffrey Yi-Lin Forrest, 2013-02-28 This book is devoted to the study of human thought its systemic structure and the historical development of mathematics both as a product of thought and as a fascinating case analysis After demonstrating that systems research constitutes the second dimension of modern science the monograph discusses the yoyo model a recent ground breaking development of systems research which has brought forward revolutionary applications of systems research in various areas of the traditional disciplines the first dimension of science After the systemic structure of thought is factually revealed mathematics as a product of thought is analyzed by using the age old concepts of actual and potential infinities In an attempt to rebuild the system of mathematics this volume first provides a new look at some of the most important paradoxes which have played a crucial role in the development of mathematics in proving what these paradoxes really entail Attention is then turned to constructing the logical foundation of two different systems of mathematics one assuming that actual infinity is different than potential infinity and the other that these infinities are the same This volume will be of interest to academic researchers students and professionals in the areas of systems science mathematics philosophy of mathematics and philosophy of science

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computer science and the parallelism challenge The American Mathematical Monthly ,1941 Includes section Recent publications Mathematical Modelling Techniques Rutherford Aris,2012-06-29 Engaging elegantly written Applied Mathematical Modelling Mathematical modelling is a highly useful methodology designed to enable mathematicians physicists and other scientists to formulate equations from a given nonmathematical situation In this elegantly written volume a distinguished theoretical chemist and engineer sets down helpful rules not only for setting up models but also for solving the mathematical problems they pose and for evaluating models The author begins with a discussion of the term model followed by clearly presented examples of the different types of models finite statistical stochastic etc He then goes on to discuss the formulation of a model and how to manipulate it into its most responsive form Along the way Dr Aris develops a delightful list of useful maxims for would be modellers In the final chapter he deals not only with the empirical validation of models but also with the comparison of models among themselves as well as with the extension of a model beyond its original domain of validity Filled with numerous examples this book includes three appendices offering further examples treated in more detail These concern longitudinal diffusion in a packed bed the coated tube chromatograph with Taylor diffusion and the stirred tank reactor Six journal articles a useful list of references and subject and name indexes complete this indispensable well written guide A most useful readable and stimulating book to be read both for pleasure and for enlightenment Bulletin of the Institute of Mathematics and Its Applications **Lecture Notes on the Mathematical Theory of Generalized Boltzmann Models** N. Bellomo, Mauro Lo Schiavo,2000 This book is based on the idea that Boltzmann like modelling methods can be developed to design with special attention to applied sciences kinetic type models which are called generalized kinetic models In particular these models appear in evolution equations for the statistical distribution over the physical state of each individual of a large population The evolution is determined both by interactions among individuals and by external actions Considering that generalized kinetic models can play an important role in dealing with several interesting systems in applied sciences the book provides a unified presentation of this topic with direct reference to modelling mathematical statement of problems qualitative and computational analysis and applications Models reported and proposed in the book refer to several fields of natural applied and technological sciences In particular the following classes of models are discussed population dynamics and socio economic behaviours models of aggregation and fragmentation phenomena models of biology and immunology traffic flow models models of mixtures and particles undergoing classic and dissipative interactions **The Mathematical Gazette** ,2008 **Indian Science Abstracts** ,2011-07 Computational Radiology and Imaging Christoph Börgers, Frank Natterer,2012-12-06 The articles collected in this volume are based on lectures given at the IMA Workshop Computational Radiology and Imaging Therapy and Diagnostics March 17 21 1997 Introductory articles by the editors have been added The focus is on inverse problems involving electromagnetic radiation and particle beams with applications to X ray tomography nuclear medicine near infrared imaging

microwave imaging electron microscopy and radiation therapy planning Mathematical and computational tools and models which play important roles in this volume include the X ray transform and other integral transforms the linear Boltzmann equation and for near infrared imaging its diffusion approximation iterative methods for large linear and non linear least squares problems iterative methods for linear feasibility problems and optimization methods The volume is intended not only for mathematical scientists and engineers working on these and related problems but also for non specialists It contains much introductory expository material and a large number of references Many unsolved computational and mathematical problems of substantial practical importance are pointed out *HDBK RADIATION MEASUREMENT PROTECTION BIOL MATHL DATA* Allen Brodsky,1978 **Analysis of Some Mathematical Models of Cell Dynamics in Hematology** Lorand Gabriel Parajdi ,2021-11-01 Bringing new contributions to science might be challenging however this is our path to evolution We cannot assume that we know everything but it is only our curiosity that can lead us to answers Therefore we can and we should keep trying seeking new and different paths There is always a starting point asking yourself Why and the answer will follow The purpose of the present book is the study of some mathematical models of cell dynamics and convex optimization problems applied to chronic myeloid leukemia a type of leukemia also known as chronic myelogenous leukemia We take into consideration basic concepts methods and results from the theory of differential equations such as existence uniqueness monotonicity boundedness continuous dependence on data and stability of solutions *Numerical Methods for Partial Differential Equations* William F. Ames,2014-05-10 Numerical Methods for Partial Differential Equations Second Edition deals with the use of numerical methods to solve partial differential equations In addition to numerical fluid mechanics hopscotch and other explicit implicit methods are also considered along with Monte Carlo techniques lines fast Fourier transform and fractional steps methods Comprised of six chapters this volume begins with an introduction to numerical calculation paying particular attention to the classification of equations and physical problems asymptotics discrete methods and dimensionless forms Subsequent chapters focus on parabolic and hyperbolic equations elliptic equations and special topics ranging from singularities and shocks to Navier Stokes equations and Monte Carlo methods The final chapter discuss the general concepts of weighted residuals with emphasis on orthogonal collocation and the Bubnov Galerkin method The latter procedure is used to introduce finite elements This book should be a valuable resource for students and practitioners in the fields of computer science and applied mathematics **The Educational year book. [5 issues].** ,1879

Proceedings of the Conference on Structure of Matter-Mathematics and Phenomenology Held at The Institution of Engineers (India), Mysore-5, (11-14, Feb. 1978) R. Sridhar,1978 *Mathl Modeling of Cell Proliferation* Heinz-Erich Wichmann,Markus Loeffler,1985-09-19 V 1 Model description irradiation erythropoietic stimulation v 2 Erythropoietic suppression combined stresses drug effects **From Particle Systems to Partial Differential Equations** Cédric Bernardin,François Golse,Patrícia Gonçalves,Valeria Ricci,Ana Jacinta Soares,2021-05-30 This book includes the joint

proceedings of the International Conference on Particle Systems and PDEs VI VII and VIII Particle Systems and PDEs VI was held in Nice France in November December 2017 Particle Systems and PDEs VII was held in Palermo Italy in November 2018 and Particle Systems and PDEs VIII was held in Lisbon Portugal in December 2019 Most of the papers are dealing with mathematical problems motivated by different applications in physics engineering economics chemistry and biology They illustrate methods and topics in the study of particle systems and PDEs and their relation The book is recommended to probabilists analysts and to those mathematicians in general whose work focuses on topics in mathematical physics stochastic processes and differential equations as well as to those physicists who work in statistical mechanics and kinetic theory

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