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 $\log_3(\cos 2x + 2) = \log_3\sqrt{\cos 2x + 2}$.   [3]

(b)   Hence or otherwise solve $\log_3(2\sin x) = \log_9(\cos 2x + 2)$ 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

Didier Musso

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HDBK RADIATION MEASURENMENT PROTECTION BIOL MATHL DATA Allen Brodsky,1978 Mathl Modeling of Cell Proliferation Heinz-Erich Wichmann,Markus Loeffler,1985-09-19 V 1 Model description irradiation erythropoietic stimulation v 2 Erythropo ietic suppression combined stresses drug effects **Hdbk of Mathl Curves & Surfaces** David Henry Von Seggern,1990 Cellular Automata M. Delorme,J. Mazoyer,2013-11-11 Cellular automata can be viewed both as computational models and modelling systems of real processes This volume emphasises the first aspect In articles written by leading researchers sophisticated massive parallel algorithms firing squad life Fischer s primes recognition are treated Their computational power and the specific complexity classes they determine are surveyed while some recent results in relation to chaos from a new dynamic systems point of view are also presented Audience This book will be of interest to specialists of theoretical computer science and the parallelism challenge *Mathl Methods for DNA Sequences* Michael Waterman,1989

A Mœso-Gothic Glossary Walter William Skeat,1868 A Moeso-Gothic Glossary W.W. Skeat,2022-06-06 Reprint of the original first published in 1868 A Moeso-gothic Glossary, with an Introduction, an Outline of Moeso-gothic Grammar, and a List of Anglo-saxon and Old and Modern English Words, Etymologically Connected with Moeso-Gothic Walter William Skeat,1868 **A Moeso-Gothic Glossary with an Introduction** Walter William Skeat,1868 *The Educational year book. [5 issues].* ,1879 **Advanced Infrastructures for Future Healthcare** Andy Marsh,Lucio Grandinetti,Tuomo Kauranne,2000 Applications of Fractal Theory on Medical Data Processing Novel Surface Reconstruction Techniques for Visualization of Medical Data Automatic Medical Image Registration Schemes using Global Optimization Techniques Wavelet Medical Signal Processing Multiresolutional Distributed Filtering A Novel Technique that Reduces the Amount of Data Required in High Resolution Electrocardiography Arterial Motion Estimation from Sequences of Images Author Index

Studia mathematica ,1980 MATHL MODELS IN MICRO MICRO POPULATN DYNAMICS Michael J. Bazin,1982-02-16 **Clusters And Nano-assemblies: Physical And Biological Systems** Purusottam Jena,Shiv Narain Khanna,Bijan K Rao,2005-05-09 While the field of clusters and nano structures in the physical sciences has been actively pursued only over the past two decades nature has known the benefits of the nanoscale for a very long time The focus of the International Symposium on Clusters and Nano Assemblies Physical and Biological Systems was to explore ways in which an understanding of the unique properties of nano scale biological systems such as proteins enzyme reactions RNA and DNA can help us design novel materials composed of inorganic nano scale systems and how techniques developed in the physical sciences can lead to a fundamental understanding of biological systems Bringing together the expert contributions from the conference this book deals with the fundamental science and technology of atomic clusters nano structures and their assemblies in physical and biological systems It explores in fascinating detail the manner in which finite size low dimensionality and reduced symmetry affect the properties of nano assemblies *Underwater Acoustic Modeling* P.C.

Etter,1995-11-30 Underwater Acoustic Modeling provides the only comprehensive source on how to translate our physical understanding of sound in the sea into mathematical formulas solvable by computers *Particle Science and Engineering* Xiaoshu Cai,Jerry Heng,2014 This book contains a selection of high quality papers discussing the state of the art research in particle science and technology presented at the UK China International Particle Technology Forum IV held at Shanghai China in December 2013 Cover **Energy Science and Applied Technology ESAT 2016** Zhigang Fang,2016-10-14 The 2016 International Conference on Energy Science and Applied Technology ESAT 2016 held on June 25 26 in Wuhan China aimed to provide a platform for researchers engineers and academicians as well as industrial professionals to present their research results and development activities in energy science and engineering and its applied technology The themes presented in Energy Science and Applied Technology ESAT 2016 are Technologies in Geology Mining Oil and Gas Renewable Energy Bio Energy and Cell Technologies Energy Transfer and Conversion Materials and Chemical Technologies Environmental Engineering and Sustainable Development Electrical and Electronic Technology Power System Engineering Mechanical Manufacturing Process Engineering Control and Automation Communications and Applied Information Technologies Applied and Computational Mathematics Methods and Algorithms Optimization Network Technology and Application System Test Diagnosis Detection and Monitoring Recognition Video and Image Processing **Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems** J. Christopher Beck,2006-05-16 This book constitutes the refereed proceedings of the Third International Conference on Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems CPAIOR 2006 held in Cork Ireland in May June 2006 The 20 revised full papers presented together with 3 invited talks were carefully reviewed and selected from 67 submissions The papers address methodological and foundational issues from AI OR and algorithmics and present applications to the solution of combinatorial optimization problems in various fields via constraint programming The Theory of Finslerian Laplacians and Applications P.L. Antonelli,Bradley C. Lackey,2012-12-06 Finslerian Laplacians have arisen from the demands of modelling the modern world However the roots of the Laplacian concept can be traced back to the sixteenth century Its phylogeny and history are presented in the Prologue of this volume The text proper begins with a brief introduction to stochastically derived Finslerian Laplacians facilitated by applications in ecology epidemiology and evolutionary biology The mathematical ideas are then fully presented in section II with generalizations to Lagrange geometry following in section III With section IV the focus abruptly shifts to the local mean value approach to Finslerian Laplacians and a Hodge de Rham theory is developed for the representation on real cohomology classes by harmonic forms on the base manifold Similar results are proved in sections II and IV each from different perspectives Modern topics treated include nonlinear Laplacians Bochner and Lichnerowicz vanishing theorems Weitzenb ck formulas and Finslerian spinors and Dirac operators The tools developed in this book will find uses in several areas of physics and engineering but especially in the

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