

Subject – Math(Higher Level)  
Topic - Vector  
Year - Nov 2011 – Nov 2019

**Question 1**

[Maximum mark: 15]

(a) For non-zero vectors  $a$  and  $b$ , show that

(i) if  $|a - b| = |a + b|$ , then  $a$  and  $b$  are perpendicular;

(ii)  $|a \times b|^2 = |a|^2 |b|^2 - (a \cdot b)^2$ . [8 marks]

(b) The points A, B and C have position vectors  $a$ ,  $b$  and  $c$ .

(i) Show that the area of triangle ABC is  $\frac{1}{2} |a \times b + b \times c + c \times a|$ .

(ii) Hence, show that the shortest distance from B to AC is

$$\frac{|a \times b + b \times c + c \times a|}{|c - a|}. \quad [7 \text{ marks}]$$

**Question 2**

[Maximum mark: 5]

Find the values of  $x$  for which the vectors  $\begin{pmatrix} 1 \\ 2 \cos x \\ 0 \end{pmatrix}$  and  $\begin{pmatrix} -1 \\ 2 \sin x \\ 1 \end{pmatrix}$  are perpendicular,  
 $0 \leq x \leq \frac{\pi}{2}$ .

**Question 3**

[Maximum mark: 6]

Two boats, A and B, move so that at time  $t$  hours, their position vectors, in kilometres, are  $r_a = (5t)\mathbf{i} + (3 - 6t)\mathbf{j}$  and  $r_b = (7 - 4t)\mathbf{i} + (7t - 6)\mathbf{j}$ .

(a) Find the coordinates of the common point of the paths of the two boats. [4 marks]

(b) Show that the boats do not collide. [2 marks]

# Nov 2014 Math Hl Paper

**Ke Gu, Hongyan Liu, Chengxu Zhou**

## Nov 2014 Math HI Paper :

InCIEC 2014 Rohana Hassan, Marina Yusoff, Anizahyati Alisibramulisi, Norliyati Mohd Amin, Zulhabri Ismail, 2015-05-11

The special focus of this proceedings is to cover the areas of infrastructure engineering and sustainability management. The state of the art information in infrastructure and sustainable issues in engineering covers earthquake bioremediation synergistic management timber engineering flood management and intelligent transport systems. It provides precise information with regards to innovative research development in construction materials and structures in addition to a compilation of interdisciplinary finding combining nano materials and engineering. The Next Step James

Freemyer, 2019-11-04 This book is written on the behalf of mathematics teachers who have been asked to teach more conceptually while simultaneously motivating more students of all ability levels to willingly embrace further upper level mathematics content and courses. This is a BIG ASK. Math teachers are being expected to overhaul their current teaching approach. Can teachers be expected to embrace this crusade alone isolated in a classroom? Principals are charged with leading the way. They must provide the opportunities and resources necessary for effective teacher collaboration. After reading this book a principal will comprehend the enormity of task each mathematics teachers faces and learn what must be done to help. School leaders will be able to design a growth plan based on a plethora of collaborative approaches. Mathematics teachers will experience the assistance they have desperately needed.

**Principles and Practice of Constraint Programming** John Hooker, 2018-08-22 This book constitutes the proceedings of the 24th International Conference on Principles and Practice of Constraint Programming CP 2018 held in Lille France in August 2018. The 41 full and 9 short papers presented in this volume were carefully reviewed and selected from 114 submissions. They deal with all aspects of computing with constraints including theory algorithms environments languages models systems and applications such as decision making resource allocation scheduling configuration and planning. The papers were organized according to the following topics tracks: main technical track applications track CP and data science CP and music CP and operations research CP optimization and power system management multiagent and parallel CP and testing and verification. Quality Assessment of Visual Content Ke Gu, Hongyan Liu, Chengxu Zhou, 2022-10-19

This book provides readers with a comprehensive review of image quality assessment technology particularly applications on screen content images 3D synthesized images sonar images enhanced images light field images VR images and super resolution images. It covers topics containing structural variation analysis sparse reference information multiscale natural scene statistical analysis task and visual perception contour degradation measurement spatial angular measurement local and global assessment metrics and more. All of the image quality assessment algorithms of this book have a high efficiency with better performance compared to other image quality assessment algorithms and the performance of these approaches mentioned above can be demonstrated by the results of experiments on real world images. On the basis of this those interested in relevant fields can use the results

obtained through these quality assessment algorithms for further image processing The goal of this book is to facilitate the use of these image quality assessment algorithms by engineers and scientists from various disciplines such as optics electronics math photography techniques and computation techniques The book can serve as a reference for graduate students who are interested in image quality assessment techniques for front line researchers practicing these methods and for domain experts working in this area or conducting related application development

**Theory and Applications of Satisfiability Testing - SAT 2017** Serge Gaspers, Toby Walsh, 2017-08-14 This book constitutes the refereed proceedings of the 20th International Conference on Theory and Applications of Satisfiability Testing SAT 2017 held in Melbourne Australia in August September 2017 The 22 revised full papers 5 short papers and 3 tool papers were carefully reviewed and selected from 64 submissions The papers are organized in the following topical sections algorithms complexity and lower bounds clause learning and symmetry handling maximum satisfiability and minimal correction sets parallel SAT solving quantified Boolean formulas satisfiability modulo theories and SAT encodings

*Handbook of the History and Philosophy of Mathematical Practice* Bharath Sriraman, 2024-04-26 The purpose of this unique handbook is to examine the transformation of the philosophy of mathematics from its origins in the history of mathematical practice to the present It aims to synthesize what is known and what has unfolded so far as well as to explore directions in which the study of the philosophy of mathematics as evident in increasingly diverse mathematical practices is headed Each section offers insights into the origins debates methodologies and newer perspectives that characterize the discipline today Contributions are written by scholars from mathematics history and philosophy as well as other disciplines that have contributed to the richness of perspectives abundant in the study of philosophy today who describe various mathematical practices throughout different time periods and contrast them with the development of philosophy Editorial Advisory Board Andrew Aberdein Florida Institute of Technology USA Jody Azzouni Tufts University USA Ot vio Bueno University of Miami USA William Byers Concordia University Canada Carlo Cellucci Sapienza University of Rome Italy Chandler Davis University of Toronto Canada 1926 2022 Paul Ernest University of Exeter UK Michele Friend George Washington University USA Reuben Hersh University of New Mexico USA 1927 2020 Kyeong Hwa Lee Seoul National University South Korea Yuri Manin Max Planck Institute for Mathematics Germany 1937 2023 Athanase Papadopoulos University of Strasbourg France Ulf Persson Chalmers University of Technology Sweden John Stillwell University of San Francisco USA David Tall University of Warwick UK 1941 2024 This book with its exciting depth and breadth illuminates us about the history practice and the very language of our subject about the role of abstraction of proof and manners of proof about the interplay of fundamental intuitions about algebraic thought in contrast to geometric thought The richness of mathematics and the philosophy encompassing it is splendidly exhibited over the wide range of time these volumes cover from deep platonic and neoplatonic influences to the most current experimental approaches Enriched as well with vivid biographies and brilliant personal essays written by and about people who play an

important role in our tradition this extraordinary collection of essays is fittingly dedicated to the memory of Chandler Davis Reuben Hersh and Yuri Manin Barry Mazur Gerhard Gade University Professor Harvard University This encyclopedic Handbook will be a treat for all those interested in the history and philosophy of mathematics Whether one is interested in individuals from Pythagoras through Newton and Leibniz to Grothendieck fields geometry algebra number theory logic probability analysis viewpoints from Platonism to Intuitionism or methods proof experiment computer assistance the reader will find a multitude of chapters that inform and fascinate John Stillwell Emeritus Professor of Mathematics University of San Francisco Recipient of the 2005 Chauvenet Prize Dedicating a volume to the memory of three mathematicians Chandler Davis Reuben Hersh and Yuri Manin who went out of their way to show to a broader audience that mathematics is more than what they might think is an excellent initiative Gathering authors coming from many different backgrounds but who are very strict about the essays they write was successfully achieved by the editor in chief The result a great source of potential inspiration Jean Pierre Bourguignon Nicolaas Kuiper Honorary Professor at the Institut des Hautes tudes Scientifiques

**Computer Vision -- ACCV 2014** Daniel Cremers,Ian Reid,Hideo Saito,Ming-Hsuan Yang,2015-04-16 The five volume set LNCS 9003 9007 constitutes the thoroughly refereed post conference proceedings of the 12th Asian Conference on Computer Vision ACCV 2014 held in Singapore Singapore in November 2014 The total of 227 contributions presented in these volumes was carefully reviewed and selected from 814 submissions The papers are organized in topical sections on recognition 3D vision low level vision and features segmentation face and gesture tracking stereo physics video and events and poster sessions 1 3

*Recent Trends In Peripheral Security Systems* Abhishek Rawat,Dipankar Deb,Jatin Upadhyay,2021-05-06 This book covers selected topics and methods for peripheral security which are gaining attention nowadays The book discusses the security arrangement and methods for monitoring the inside outside entry of peripheral areas that need to be secured It relates to a periphery often portable device as well as the methods employed and systems including such a peripheral device and a host central command device with which the local geographical command device communicates enabling one or more security operations performed by the peripheral device It also covers the security scenario of snow prone areas in a remote location It also elaborates how we can secure the person and devices in extremely cold conditions and rescue them This book helps the researchers academicians and industry persons working in security areas to protect unauthentic entry in large scale areas that may be defense camps or civilian applications like large sized bungalows institutes and organizations of national importance The experimental results are in close conformance to the proposed methodologies

*Handbook of Research on Classroom Diversity and Inclusive Education Practice* Curran, Christina M.,Petersen, Amy J.,2017-05-30 As classrooms are becoming more diverse teachers are now faced with the responsibility of creating an inclusive classroom community As such researching classroom pedagogies and practices is an imperative step in curriculum planning The Handbook of Research on Classroom Diversity and Inclusive Education Practice is an authoritative reference

source for the latest scholarly research on ways to effectively teach all students and further refine and strengthen school wide inclusive pedagogy methods and policies Featuring extensive coverage on a number of topics such as special education online learning and English language learners this publication is ideally designed for professionals educators and policy makers seeking current research on methods that ensure all students have equal access to curricular content and the chance for growth and success *Instructional Practices with and without Empirical Validity* Bryan G. Cook,Melody

Tankersley,Timothy J. Landrum,2016-07-06 It is important for Stakeholders to be aware of both practices supported as effective as well as ineffective for students with learning and behavioral disabilities in order to provide instruction that results in improved learner outcomes in critical areas of education Putting the "Why" Back into Bone "Archytecture" Phil Salmon,Daniel Chappard,Andrew Anthony Pitsillides,2017-07-27 A large literature exists on trabecular and cortical bone morphology The engineering performance of bone implied from its 3d architecture is often the endpoint of bone biology experiments being clinically relevant to bone fracture How and why does bone travel along its complex spatio temporal trajectory to acquire its architecture The question why can have two meanings The first teleological why is an architecture advantageous is the domain of substantial biomechanical research to date The second etiological how did an architecture come about has received far less attention This Frontiers Bone Research Topic invited contributions addressing this etiological why what mechanisms can coordinate the activity of bone forming and resorbing cells to produce the observed complex and efficient bone architectures One mechanism is proposed chaotic nonlinear pattern formation NPF which underlies in a unifying way natural structures as disparate as trabecular bone swarms of birds flying or shoaling fish island formation fluid turbulence and others At the heart of NPF is the fact that simple rules operating between interacting elements multiplied and repeated many times lead to complex and structured patterns This paradigm of growth and form leads to a profound link between bone regulation and its architecture in bone the architecture is the regulation The former is the emergent consequence of the latter Whatever mechanism does determine bone s developing architecture has to operate at the level of individual sites of formation and resorption and coupling between the two This has implications as to how we understand the effect on bone of agents such as gene products or drugs It may be for instance that the tuning of coupling between formation and resorption might be as important as the achievement of enhanced bone volume The ten articles that were contributed to this Topic were just what we hoped for a snapshot of leading edge bone biology research which addresses the question of how bone gets its shape We hope that you find these papers thought provoking and that they might stimulate new ideas in the research into bone architecture growth and adaptation and how to preserve healthy bone from gestation and childhood until old age Dynamic Data-Driven Environmental Systems Science Sai Ravela,Adrian Sandu,2015-11-26 This book constitutes the refereed proceedings of the First International Conference on Dynamic Data Driven Environmental Systems Science DyDESS 2014 held in Cambridge MA USA in November 2014 The 24 revised full

papers and 7 short papers were carefully reviewed and selected from 62 submissions and cover topics on sensing imaging and retrieval for the oceans atmosphere space land earth and planets that is informed by the environmental context algorithms for modeling and simulation downscaling model reduction data assimilation uncertainty quantification and statistical learning methodologies for planning and control sampling and adaptive observation and efficient coupling of these algorithms into information gathering and observing system designs and applications of methodology to environmental estimation analysis and prediction including climate natural hazards oceans cryosphere atmosphere land space earth and planets

*Wiring the Streets, Surfing the Square* Timothy Jachna, 2021-03-18 This book investigates the production of public space in contemporary urban contexts as conditioned by the suffusion of urban life with digital technologies A social production of technology approach is taken to frame the digitally mediated city as a communal social and cultural project Acknowledging the multivalent and shifting nature of public space and the heterogeneity of the urban actors who form it the agency of these different actors in appropriating digital technologies takes center stage The dynamics of negotiations between regimes of control and impulses towards freedom and experimentation the entanglement of the spatial commons and the digital commons changes in the notions of what constitutes membership in a public or counterpublic and evolving relationships between the various individuals and groups who share and constitute public space are all revealed in different actors appropriation of digital technologies in the formation of public spaces and the conducting of public life in cities The book is divided into two sections Drawing on classic and contemporary scholars on public space and on digital culture Section I explores the implications of the convergence of these bodies of knowledge and lenses of critique and examination on the present urban condition establishing a conceptual foundation upon which public space discourse is brought to bear on an interrogation of the wired or mediated city Structured by the core concepts that underlie Hannah Arendt's notion of agency in the constitution of the public sphere Section II is devoted to discussing and demonstrating through myriad concrete examples how different affordances of digital technologies are implicated in the production of public space and in the interplay between urban governance and control urban life and citizenship and urban commodification The topics in this book are of broad and current international relevance and will appeal to scholars and students in architecture urbanism design sociology and digital culture

*Matrix Inequalities for Iterative Systems* Hanjo Taubig, 2017-02-03 The book reviews inequalities for weighted entry sums of matrix powers Applications range from mathematics and CS to pure sciences It unifies and generalizes several results for products and powers of sesquilinear forms derived from powers of Hermitian positive semidefinite as well as nonnegative matrices It shows that some inequalities are valid only in specific cases How to translate the Hermitian matrix results into results for alternating powers of general rectangular matrices Inequalities that compare the powers of the row and column sums to the row and column sums of the matrix powers are refined for nonnegative matrices Lastly eigenvalue bounds and derive results for iterated kernels are improved

**New Developments**

**in Environmental and Energy Technologies** Jan Baeyens,Raf Dewil,Barbara Rossi,Yimin Deng,2025-03-27 This book presents the selected papers from the 2023 5th International Conference on Environmental Sciences and Renewable Energy ESRE 2023 which was held as a hybrid conference during June 19 21 2023 in Vienna Austria The book includes first rate original research on various aspects of environmental sciences and renewable energy offering perspectives from industrial and research communities to address current challenges in related fields In the field of environmental science wastewater and sludge treatment air pollution and control global environmental change and ecosystems management are discussed In the area of renewable energy several hot topics are presented including solar energy energy conservation and recovery and hydrogen generation and application This book supports the transfer of vital knowledge to next generation researchers students and practitioners in academia and industry

The Math Teacher's Toolbox Bobson Wong,Larisa Bukalov,2020-04-09 Math teachers will find the classroom tested lessons and strategies in this book to be accessible and easily implemented in the classroom The Teacher s Toolbox series is an innovative research based resource providing teachers with instructional strategies for students of all levels and abilities Each book in the collection focuses on a specific content area Clear concise guidance enables teachers to quickly integrate low prep high value lessons and strategies in their middle school and high school classrooms Every strategy follows a practical how to format established by the series editors The Math Teacher s Toolbox contains hundreds of student friendly classroom lessons and teaching strategies Clear and concise chapters fully aligned to Common Core math standards cover the underlying research required technology practical classroom use and modification of each high value lesson and strategy This book employs a hands on approach to help educators quickly learn and apply proven methods and techniques in their mathematics courses Topics range from the planning of units lessons tests and homework to conducting formative assessments differentiating instruction motivating students dealing with math anxiety and culturally responsive teaching Easy to read content shows how and why math should be taught as a language and how to make connections across mathematical units Designed to reduce instructor preparation time and increase student engagement and comprehension this book Explains the usefulness application and potential drawbacks of each instructional strategy Provides fresh activities for all classrooms Helps math teachers work with ELLs advanced students and students with learning differences Offers real world guidance for working with parents guardians and co teachers The Math Teacher s Toolbox Hundreds of Practical ideas to Support Your Students is an invaluable source of real world lessons strategies and techniques for general education teachers and math specialists as well as resource specialists special education teachers elementary and secondary educators and teacher educators

**The Formative 5 in Action, Grades K-12** Francis (Skip) Fennell,Beth McCord Kobett,Jonathan A. Wray,2023-06-05 This expanded volume serves as an interactive guide that steers teachers toward successful implementation of the formative five techniques of observation interviews Show Me hinge questions and exit tasks It offers video examples of the five techniques in action in real K 12

classrooms built in reflection exercises and activities discussion of providing effective and timely feedback to students while harnessing their strengths and teachers frequently asked questions

**HCI International 2020 - Late Breaking Papers: Cognition, Learning and Games** Constantine Stephanidis, Don Harris, Wen-Chin Li, Dylan D. Schmorrow, Cali M.

Fidopiastis, Panayiotis Zaphiris, Andri Ioannou, Xiaowen Fang, Robert A. Sottilare, Jessica Schwarz, 2020-10-03 This book constitutes late breaking papers from the 22nd International Conference on Human Computer Interaction HCII 2020 which was held in July 2020. The conference was planned to take place in Copenhagen Denmark but had to change to a virtual conference mode due to the COVID 19 pandemic. From a total of 6326 submissions a total of 1439 papers and 238 posters have been accepted for publication in the HCII 2020 proceedings before the conference took place. In addition a total of 333 papers and 144 posters are included in the volumes of the proceedings published after the conference as Late Breaking Work papers and posters. These contributions address the latest research and development efforts in the field and highlight the human aspects of design and use of computing systems.

*Classical and Physical Security of Symmetric Key Cryptographic Algorithms* Anubhab Baksi, 2022-01-01 This book consolidates several key aspects from the state of the art research in symmetric key cryptography which is among the cornerstones of digital security. It presents the content in an informative yet beginner friendly accompanied with toy examples and comprehensible graphics. In particular it highlights the recent developments in tool assisted analysis of ciphers. Furthermore promising device dependent attacks such as fault attack and side channel attacks on symmetric key ciphers are discussed in detail. One salient feature of this book is to present a detailed analysis of various fault countermeasures. The coverage of our book is quite diverse it ranges from prerequisite information latest research contribution as well as future research directions. It caters to students and researchers working in the field of cryptography.

**Technological Advancement in Instrumentation & Human Engineering** Mohd Hasnun Arif Hassan, Mohd Hafizi Zohari, Kumaran Kadirgama, Nik Abdullah Nik Mohamed, Amir Aziz, 2022-08-10 This book Technological Advancement in Instrumentation Human Engineering gathers selected papers submitted to the 6th International Conference on Mechanical Engineering Research in fields related to human engineering ergonomics vibration instrumentation Internet of Things and signal processing. This proceeding consists of papers in aforementioned related fields presented by researchers and scientists from universities research institutes and industry showcasing their latest findings and discussions with an emphasis on innovations and developments in embracing the new norm resulting from the COVID pandemic.

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