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MATHEMATICS P1

MAY/JUNE 2023

MARKS: 150

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The question paper consists of 9 pages and 1 information sheet.



FULL MEMO

GRADE 12

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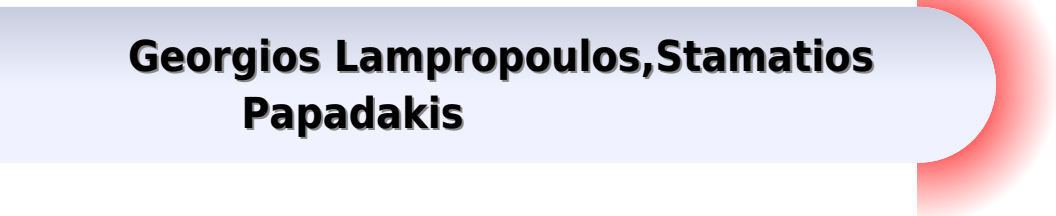
PAPER 1

NSC JUNE 2023



# Mathematics June 2013 Paper 1 Memo

**Georgios Lampropoulos, Stamatios  
Papadakis**



## Mathematics June 2013 Paper 1 Memo:

### **Cognitive Communication and Cooperative HetNet Coexistence** Maria-Gabriella Di Benedetto, Faouzi

Bader, 2014-01-16 This book written by experts from universities and major industrial research laboratories is devoted to the very hot topic of cognitive radio and networking for cooperative coexistence of heterogeneous wireless networks. Selected highly relevant advanced research is presented on spectrum sensing and progress toward the realization of accurate radio environment mapping, biomimetic learning for self-organizing networks, security threats with a special focus on primary user emulation attack and cognition as a tool for green next generation networks. The research activities covered include work undertaken within the framework of the European COST Action IC0902 which is geared towards the definition of a European platform for cognitive radio and networks. Communications engineers, R & D engineers, researchers and students will all benefit from this complete reference on recent advances in wireless communications and the design and implementation of cognitive radio systems and networks.

### **Global Flood Hazard** Guy J-P. Schumann, Paul D. Bates, Heiko Apel, Giuseppe T.

Aronica, 2018-06-05 Global Flood Hazard Subject Category Winner PROSE Awards 2019 Earth Science. Selected from more than 500 entries demonstrating exceptional scholarship and making a significant contribution to the field of study. Flooding is a costly natural disaster in terms of damage to land property and infrastructure. This volume describes the latest tools and technologies for modeling, mapping and predicting large scale flood risk. It also presents readers with a range of remote sensing data sets successfully used for predicting and mapping floods at different scales. These resources can enable policymakers, public planners and developers to plan for and respond to flooding with greater accuracy and effectiveness. Describes the latest large scale modeling approaches including hydrological models, 2D flood inundation models and global flood forecasting models. Showcases new tools and technologies such as Aqueduct, a new web based tool used for global assessment and projection of future flood risk under climate change scenarios. Features case studies describing best practice uses of modeling techniques, tools and technologies. Global Flood Hazard is an indispensable resource for researchers, consultants, practitioners and policy makers dealing with flood risk, flood disaster response, flood management and flood mitigation.

*A Complete Classification of the Isolated Singularities for Nonlinear Elliptic Equations with Inverse Square Potentials* Florica C. Cîrstea, 2014-01-08 In particular for  $b = 1$  and  $0$  we find a sharp condition on  $h$  such that the origin is a removable singularity for all non-negative solutions of  $\Delta u = h|u|^{p-2}u$  thus addressing an open question of Vázquez and Vron

### *Proof of the 1-Factorization and Hamilton Decomposition Conjectures* Béla Csaba, Daniela Kühn, Allan Lo, Deryk

Osthus, Andrew Treglown, 2016-10-05 In this paper the authors prove the following results via a unified approach for all sufficiently large  $n$ : i) 1-factorization conjecture Suppose that  $n$  is even and  $D \geq n/4 + 1$ . Then every  $D$ -regular graph  $G$  on  $n$  vertices has a decomposition into perfect matchings. Equivalently  $G$  has a Hamilton decomposition. ii) Hamilton decomposition conjecture Suppose that  $D \geq n/2$ . Then every  $D$ -regular graph  $G$  on  $n$  vertices has a decomposition into Hamilton cycles and at most one perfect matching. iii)

Optimal packings of Hamilton cycles Suppose that  $G$  is a graph on  $n$  vertices with minimum degree  $n/2$  Then  $G$  contains at least  $\lfloor n/2 \rfloor$  edge disjoint Hamilton cycles Here  $\lfloor n/2 \rfloor$  denotes the degree of the largest even regular spanning subgraph one can guarantee in a graph on  $n$  vertices with minimum degree  $i$  was first explicitly stated by Chetwynd and Hilton ii and the special case  $n/2$  of iii answer questions of Nash Williams from 1970 All of the above bounds are best possible

**Federal Register** ,2013-06 *Operator-Valued Measures, Dilations, and the Theory of Frames* Deguang Han, David R. Larson, Bei Liu, Rui Liu, 2014-04-07 The authors develop elements of a general dilation theory for operator valued measures Hilbert space operator valued measures are closely related to bounded linear maps on abelian von Neumann algebras and some of their results include new dilation results for bounded linear maps that are not necessarily completely bounded and from domain algebras that are not necessarily abelian In the non cb case the dilation space often needs to be a Banach space They give applications to both the discrete and the continuous frame theory There are natural associations between the theory of frames including continuous frames and framings the theory of operator valued measures on sigma algebras of sets and the theory of continuous linear maps between algebras In this connection frame theory itself is identified with the special case in which the domain algebra for the maps is an abelian von Neumann algebra and the map is normal i e ultraweakly or weakly or w continuous

**Minimum Deterrence: Examining the Evidence** Keith B. Payne, James Schlesinger, 2016-04-14 The National Institute for Public Policy's new book Minimum Deterrence Examining the Evidence is the first of its kind Dr Keith Payne former Secretary of Defense James Schlesinger and an unparalleled bipartisan group of senior civilian and military experts critically examine eight basic assumptions of Minimum Deterrence against available evidence In general Minimum Deterrence does not fare well under the careful scrutiny Proponents of a Minimum Deterrent US nuclear force posture believe that anywhere from a handful to a few hundred nuclear weapons are adequate to deter reliably and predictably any enemy from attacking the United States now and in the future Because nuclear weapons are so destructive their thinking goes no foreign leader would dare challenge US capabilities The benefits advocates claim of reducing US nuclear weapons to the minimum level needed are better relations with Russia and China reinforcement of the arms control and Nonproliferation Treaty billions of defense dollars in savings and greater international stability on the way to nuclear zero As political pressure builds to pursue this vision of minimum US deterrence Minimum Deterrence Examining the Evidence stands as the seminal study to address the many claims of great benefit using available evidence This book was published as a special issue of Comparative Strategy

On Non-Topological Solutions of the  $\$A_{\{2\}}$  and  $\$B_{\{2\}}$  Chern-Simons System Weiwei Ao, Chang-Shou Lin, Juncheng Wei, 2016-01-25 Click here to view the abstract Introduction Proof of Theorem 1.1 in the case Proof of Theorem 1.1 in the case Appendix Bibliography *Studies in Intelligence* ,2016 **Social Robots in Education** Georgios Lampropoulos, Stamatios Papadakis, 2025-05-03 This book focuses on recent advances in the field of social robots and their integration in education It elaborates on the progressive evolution of human robot interaction

and educational robotics the emergence of digital pedagogy and the implementation of personalized learning methodologies The book also examines the use of artificial intelligence AI in education through the lenses of social robots Hence the book offers an overview of recent research into the adoption integration advancements and impact of social robots and AI in education and presents guidelines and suggestions on how to integrate them in classrooms Specifically the book Provides an in depth overview of social robots and their use in education Presents the advances of social robots and AI in education Showcases innovative solutions and outcomes of integrating social robots in classrooms Discusses the challenges benefits and future research directions of using social robots and AI in education

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