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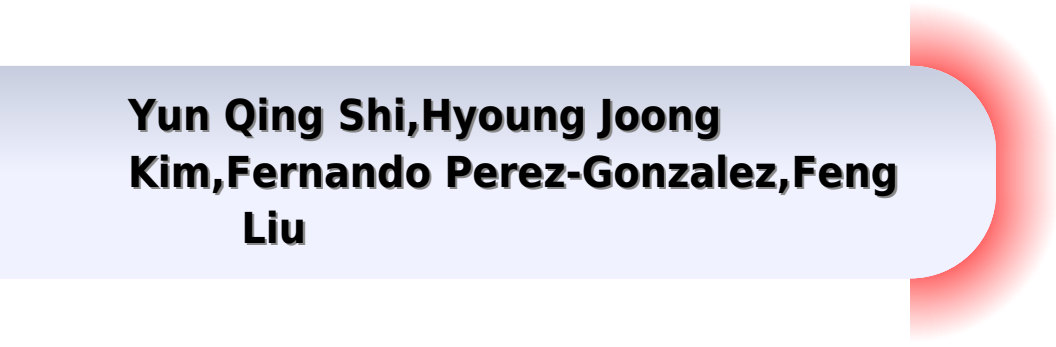
**MATHEMATICS PAPER 1
SEPTEMBER 2023
MARKING GUIDELINES**

MARKS: 150

This marking guideline consists of 13 pages.

2014 September Mathematics Paper 1 Memo

**Yun Qing Shi, Hyoung Joong
Kim, Fernando Perez-Gonzalez, Feng
Liu**



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Sustainable Green Chemistry Mark Anthony Benvenuto, 2017-04-10 *Sustainable Green Chemistry* the 1st volume of Green Chemical Processing covers several key aspects of modern green processing The scope of this volume goes beyond bio and organic chemistry highlighting the ecological and economic benefits of enhanced sustainability in such diverse fields as petrochemistry metal production and wastewater treatment The authors discuss recent progresses and challenges in the implementation of green chemical processes as well as their transfer from academia to industry and teaching at all levels Selected successes in the greening of established processes and reactions are presented including the use of switchable polarity solvents actinide recovery using ionic liquids and the removal of the ubiquitous bisphenol A molecule from effluent streams by phytodegradation **Global Regularity for 2D Water Waves with Surface Tension** Alexandru D.

Ionescu, Fabio Pusateri, 2019-01-08 The authors consider the full irrotational water waves system with surface tension and no gravity in dimension two the capillary waves system and prove global regularity and modified scattering for suitably small and localized perturbations of a flat interface An important point of the authors analysis is to develop a sufficiently robust method the quasilinear I method which allows the authors to deal with strong singularities arising from time resonances in the applications of the normal form method the so called division problem As a result they are able to consider a suitable class of perturbations with finite energy but no other momentum conditions Part of the authors analysis relies on a new treatment of the Dirichlet Neumann operator in dimension two which is of independent interest As a consequence the results in this paper are self contained **Introduction to Computable General Equilibrium Models** Mary E.

Burfisher, 2017-02-01 This book provides an accessible undergraduate level introduction to computable general equilibrium CGE models a class of model that has come to play an important role in government policy decisions The book uses a graphical approach to explain the economic theory that underlies a CGE model and provides results from simple small scale CGE models to illustrate the links between theory and model outcomes The book includes eleven guided hands on exercises that introduce modeling techniques that are applied to real world economic problems Students will learn how to integrate their separate fields of economic study into a comprehensive general equilibrium perspective as they develop their skills as producers or consumers of CGE based analysis **Weakly Modular Graphs and Nonpositive Curvature** Jérémie

Chalopin, Victor Chepoi, Hiroshi Hirai, Damian Osajda, 2021-06-18 This article investigates structural geometrical and topological characterizations and properties of weakly modular graphs and of cell complexes derived from them The unifying themes of our investigation are various nonpositive curvature and local to global properties and characterizations of weakly modular graphs and their subclasses Weakly modular graphs have been introduced as a far reaching common generalization of median graphs and more generally of modular and orientable modular graphs Helly graphs bridged graphs and dual polar graphs occurring under different disguises 1 skeletons collinearity graphs covering graphs domains etc in several seemingly

unrelated fields of mathematics Metric graph theory Geometric group theory Incidence geometries and buildings Theoretical computer science and combinatorial optimization We give a local to global characterization of weakly modular graphs and their sub classes in terms of simple connectedness of associated triangle square complexes and specific local combinatorial conditions In particular we revisit characterizations of dual polar graphs by Cameron and by Brouwer Cohen We also show that disk Helly graphs are precisely the clique Helly graphs with simply connected clique complexes With ℓ_1 embeddable weakly modular and sweakly modular graphs we associate high dimensional cell complexes having several strong topological and geometrical properties contractibility and the CAT 0 property Their cells have a specific structure they are basis polyhedra of even matroids in the first case and orthoscheme complexes of gated dual polar subgraphs in the second case We resolve some open problems concerning subclasses of weakly modular graphs we prove a Brady McCammond conjecture about CAT 0 metric on the orthoscheme

The Maslov Index in Symplectic Banach Spaces Bernhelm

Booß-Bavnbek, Chaofeng Zhu, 2018-03-19 The authors consider a curve of Fredholm pairs of Lagrangian subspaces in a fixed Banach space with continuously varying weak symplectic structures Assuming vanishing index they obtain intrinsically a continuously varying splitting of the total Banach space into pairs of symplectic subspaces Using such decompositions the authors define the Maslov index of the curve by symplectic reduction to the classical finite dimensional case The authors prove the transitivity of repeated symplectic reductions and obtain the invariance of the Maslov index under symplectic reduction while recovering all the standard properties of the Maslov index As an application the authors consider curves of elliptic operators which have varying principal symbol varying maximal domain and are not necessarily of Dirac type For this class of operator curves the authors derive a desuspension spectral flow formula for varying well posed boundary conditions on manifolds with boundary and obtain the splitting formula of the spectral flow on partitioned manifolds

A Geometric Theory for Hypergraph Matching Peter Keevash, Richard Mycroft, 2014-12-20 The authors develop a theory for the existence of perfect matchings in hypergraphs under quite general conditions Informally speaking the obstructions to perfect matchings are geometric and are of two distinct types space barriers from convex geometry and divisibility barriers from arithmetic lattice based constructions To formulate precise results they introduce the setting of simplicial complexes with minimum degree sequences which is a generalisation of the usual minimum degree condition They determine the essentially best possible minimum degree sequence for finding an almost perfect matching Furthermore their main result establishes the stability property under the same degree assumption if there is no perfect matching then there must be a space or divisibility barrier This allows the use of the stability method in proving exact results Besides recovering previous results the authors apply our theory to the solution of two open problems on hypergraph packings the minimum degree threshold for packing tetrahedra in graphs and Fischer's conjecture on a multipartite form of the Hajnal Szemerédi Theorem Here they prove the exact result for tetrahedra and the asymptotic result for Fischer's conjecture since the exact result for the latter is

technical they defer it to a subsequent paper Geologic Fundamentals of Geothermal Energy David R. Boden, 2016-09-19
 Geothermal energy stands out because it can be used as a baseload resource This book unlike others examines the geology related to geothermal applications Geology dictates a how geothermal resources can be found b the nature of the geothermal resource such as liquid or vapor dominated and c how the resource might be developed ultimately such as flash or binary geothermal plants The compilation and distillation of geological elements of geothermal systems into a single reference fills a notable gap **On the Nodal Set of Solutions to a Class of Nonlocal Parabolic Equations** Alessandro Audrito, Susanna Terracini, 2024-10-23 View the abstract **The Further Chameleon Groups of Richard Thompson and Graham Higman: Automorphisms via Dynamics for the Higman-Thompson Groups $G_{\{n,r\}}$** C. Bleak, P. Cameron, Y. Maissel, A. Navas, F. Olukoya, 2024-10-23 View the abstract Digital Forensics and Watermarking Yun Qing Shi, Hyoung Joong Kim, Fernando Perez-Gonzalez, Feng Liu, 2017-02-14 This book constitutes the revised post conference proceedings of the 15th International Workshop on Digital Forensics and Watermarking IWDW 2016 held in Beijing China in September 2016 The 45 papers presented in this volume were carefully reviewed and selected from 70 submissions The contributions are organized in topical sections on digital forensics visual cryptography reversible data hiding and steganography and steganalysis

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