



basic education

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MEMORANDUM

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This memorandum consists of 22 pages.
Hierdie memorandum bestaan uit 22 bladsye.

2014 June Memorandum Mathematics Paper 1

David J. Brown



2014 June Memorandum Mathematics Paper 1:

CDS 12 Years Topic-wise Solved Papers Mathematics, English & General Knowledge (2007-2018) - 3rd Edition

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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 $D \geq \frac{n}{4} + 1$ Then every D regular graph G on n vertices has a decomposition into perfect matchings Equivalently $G \in \mathcal{D}_1$ ii Hamilton decomposition conjecture Suppose that $D \geq \frac{n}{2} + 2$ 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 $\geq \frac{n}{2}$ Then G contains at least $\frac{n}{2} - 8$ edge disjoint Hamilton cycles Here $\text{regeven } n$ denotes the degree of the largest even regular spanning subgraph one can guarantee in a graph on n vertices with minimum degree $\geq i$ was first explicitly stated by Chetwynd and Hilton ii and the special case $n \geq 2$ of iii answer questions of Nash Williams from 1970 All of the above bounds are best possible

California Dreaming Lawrence J. McQuillan, 2015-05-01 A politically created crisis of epic proportions is brewing in California and elsewhere across the United States For decades public pension officials and politicians of both parties have promised their employees increasingly generous retirement benefits while low balling the contributions from government agencies and employees that are needed to cover these promises presenting our greatest financial challenge since the Great Depression Pushing the pension liability from today and onto our children and grandchildren leaves them with a depleted future and a potentially bankrupt California State and local governments will scramble to find funds forcing them to raise taxes slash public services and or declare bankruptcy Schools parks emergency services and public employee retirement benefits will be at risk Politicians will defer until circumstances force them to reckon with a disaster of their own making The problem For far too long state and local governments have promised their employees increasingly generous retirement benefits but without ensuring that sufficient funds will be on hand when the pension payments come due In California

Dreaming Lawrence J McQuillan pulls back the curtains covering this unfunded liability crisis He describes the true extent of the problem explains the critical factors that are driving public pension debt sky high and exposes the perverse incentives of lawmakers and pension officials that reward them for not fixing the problem and letting it escalate Finally he offers the six crucial reforms needed to restore the financial health of California and other threatened jurisdictions If California Dreaming s roadmap for reform is adopted the prospects for achieving a thriving balanced and equitable future are highly favorable in California and any state or municipality facing its own public pension problem If not the many opportunities that once made the Golden State seem like a Promised Land will quickly evaporate **Access to Scientific Research** David J.

Brown,2015-11-13 The debate about access to scientific research raises questions about the current effectiveness of scholarly communication processes This book explores from an independent point of view the current state of the STM publishing market new publishing technologies and business models as well as the information habit of researchers the politics of research funders and the demand for scientific research as a public good The book also investigates the democratisation of science including how the information needs of knowledge workers outside academia can be embraced in future The Third Option Loch K. Johnson,2022 Introduction The subterranean world of clandestine interventions The

forms of covert action A ladder of clandestine escalation A shadowy foreign policy 1947 1960 Murder most foul 1960 1975 A new approach to covert action 1975 2000 The third option in an age of terror 2000 2020 Legal foundations Decision paths and accountability Drawing bright lines ethics and covert action The third option reconsidered **Curves and Surfaces**

Jean-Daniel Boissonnat,Albert Cohen,Olivier Gibaru,Christian Gout,Tom Lyche,Marie-Laurence Mazure,Larry L.

Schumaker,2015-08-13 This volume constitutes the thoroughly refereed post conference proceedings of the 8th International Conference on Curves and Surfaces held in Paris France in June 2014 The conference had the overall theme Representation and Approximation of Curves and Surfaces and Applications The 32 revised full papers presented were carefully reviewed and selected from 39 submissions The scope of the conference was on following topics approximation theory computer aided geometric design computer graphics and visualization computational geometry and topology geometry processing image and signal processing interpolation and smoothing mesh generation finite elements and splines scattered data processing and learning theory sparse and high dimensional approximation subdivision wavelets and multi resolution method **The Local**

Structure Theorem for Finite Groups With a Large p -Subgroup U. Meierfrankenfeld,Christian-Albrechts-University of Kiel, Kiel, Germany,,G. Stroth,2016-06-21 Let p be a prime G a finite Kp group S a Sylow p subgroup of G and Q a large subgroup of G in S i e $CG Q Q$ and $NG U NG Q$ for $1 U CG Q$ Let L be any subgroup of G with $S L Op L 1$ and $Q L$ In this paper the authors determine the action of L on the largest elementary abelian normal p reduced p subgroup YL of L **Studies in Intelligence** ,2016 **On Non-Generic Finite Subgroups of Exceptional Algebraic Groups** Alastair J.

Litterick,2018-05-29 The study of finite subgroups of a simple algebraic group G reduces in a sense to those which are almost

simple If an almost simple subgroup of G has a socle which is not isomorphic to a group of Lie type in the underlying characteristic of G then the subgroup is called non generic This paper considers non generic subgroups of simple algebraic groups of exceptional type in arbitrary characteristic

The Schenley Experiment Jake Oresick, 2017-04-14 The Schenley Experiment is the story of Pittsburgh's first public high school a social incubator in a largely segregated city that was highly even improbably successful throughout its 156 year existence Established in 1855 as Central High School and reorganized in 1916 Schenley High School was a model of innovative public education and an ongoing experiment in diversity Its graduates include Andy Warhol actor Bill Nunn and jazz virtuoso Earl Hines and its prestigious academic program and pensions lured such teachers as future Pulitzer Prize winner Willa Cather The subject of investment as well as destructive neglect the school reflects the history of the city of Pittsburgh and provides a study in both the best and worst of urban public education practices there and across the Rust Belt Integrated decades before Brown v Board of Education Schenley succumbed to default segregation during the white flight of the 1970s it rose again to prominence in the late 1980s when parents camped out in six day long lines to enroll their children in visionary superintendent Richard C Wallace's reinvigorated school Although the historic triangular building was a cornerstone of its North Oakland neighborhood and a showpiece for the city of Pittsburgh officials closed the school in 2008 citing over 50 million in necessary renovations a controversial event that captured national attention Schenley alumnus Jake Oresick tells this story through interviews historical documents and hundreds of first person accounts drawn from a community indelibly tied to the school A memorable important work of local and educational history his book is a case study of desegregation magnet education and the changing nature and legacies of America's oldest public schools

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in the nitration of bromobenzene a mixture of sulfuric acid and nitric acid react with one another nitric acid the weaker of the two acids will serve as base to form nitronium ion bromobenzene will attack the nitronium ion by nucleophilic attack

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the bromine substituent in bromobenzene is an ortho para director the para position is favored due to steric effects in the reaction that takes place in this lab a nitro group is substituted onto bromobenzene at the para position to form 1 bromo 4 nitrobenzene

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over 5 minutes slowly pipet this bromobenzene into the icy cold nitration mixture hno 3 h 2 so 4 in the 125 ml flask and stir continue to stir the reaction mixture in the ice bath for 30 minutes do not heat in a new 250 ml erlenmeyer

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on the right the arenium cation has a nitro set with incredibly small 0.6 angstrom bond distances this will result in an optimization failure as the atoms are even close for the programme to accomodate their electrons demonstration of creating the p arenium cation by to nitration of bromobenzene

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the purpose of this lab was to observe where substituents are added on a benzene ring by way of electrophilic aromatic substitution the electrophilic source in the nitration of bromobenzene comes from a nitronium ion no₂⁺ which acts as the electrophilic species

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nitration of bromobenzene is an electrophilic aromatic substitution reaction the electrophile will be formed from 4.0 ml of nitric acid and 4.0 ml of sulfuric acid and will then react with 4.5 ml of bromobenzene this will produce o bromonitrobenzene and p bromonitrobenzene

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