



Education and Sport Development

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Departement van Onderwys en Sport Ontwikkeling

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MARKS: 100

This marking guideline consists of 12 pages.

Mathematics Paper June 2015 Memorandum

RM Cervero



Mathematics Paper June 2015 Memorandum:

Drawing Futures Bob Sheil, Frédéric Migayrou, Luke Pearson, Laura Allen, 2016-11-11 Drawing Futures brings together international designers and artists for speculations in contemporary drawing for art and architecture Despite numerous developments in technological manufacture and computational design that provide new grounds for designers the act of drawing still plays a central role as a vehicle for speculation There is a rich and long history of drawing tied to innovations in technology as well as to revolutions in our philosophical understanding of the world In reflection of a society now underpinned by computational networks and interfaces allowing hitherto unprecedented views of the world the changing status of the drawing and its representation as a political act demands a platform for reflection and innovation Drawing Futures will present a compendium of projects writings and interviews that critically reassess the act of drawing and where its future may lie Drawing Futures focuses on the discussion of how the field of drawing may expand synchronously alongside technological and computational developments The book coincides with an international conference of the same name taking place at The Bartlett School of Architecture UCL in November 2016 Bringing together practitioners from many creative fields the book discusses how drawing is changing in relation to new technologies for the production and dissemination of ideas

Applications of Operational Research and Mathematical Models in Management Miltiadis Chalikias, 2020-11-17 This book Applications of Operational Research and Mathematical Models in Management includes all the papers published in the Mathematics Special Issue with the same title All the published papers are of high quality and were subjected to rigorous peer review Mathematics is included in the Science Citation Index Web of Science and its current Impact Factor is 1.747 The papers in this book deal with on R D performance models methods for ranking the perspectives and indicators of a balance scorecard robust optimization model applications integrated production and distribution problem solving demand functions supply chain games probabilistic optimization and profit research coordinated techniques for order preference robustness approaches in bank capital optimization and hybrid methods for tourism demand forecasting All the papers included contribute to the development of research

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

Irreducible Geometric Subgroups of Classical Algebraic Groups Timothy C. Burness, Soumaïa Ghandour, Donna M. Testerman, 2016-01-25 Let G be a simple classical algebraic group over an algebraically closed field of characteristic p with natural module V Let H be a closed subgroup of G and let W be a non trivial irreducible tensor indecomposable restricted rational module such that the restriction of W to H is irreducible In this paper the authors classify the triples of this form where H is a disconnected maximal positive dimensional closed subgroup of G preserving a natural geometric structure on V

Space Information Networks Quan Yu, 2019-01-23 This book constitutes the proceedings of the Third International Conference on Space Information Networks SINC 2018 held in

Changchun China in August 2018 The 17 full and 7 short papers presented in this volume were carefully reviewed and selected from 140 submissions The papers are organized in topical sections on architecture and efficient networking mechanism theories and methods of high speed transmission and sparse characterization and fusion processing

Lie Theory and Its Applications in Physics Vladimir Dobrev, 2023-01-29 This volume presents modern trends in the area of symmetries and their applications based on contributions to the Workshop Lie Theory and Its Applications in Physics held in Sofia Bulgaria on line in June 2021 Traditionally Lie theory is a tool to build mathematical models for physical systems Recently the trend is towards geometrization of the mathematical description of physical systems and objects A geometric approach to a system yields in general some notion of symmetry which is very helpful in understanding its structure Geometrization and symmetries are meant in their widest sense i e representation theory algebraic geometry number theory infinite dimensional Lie algebras and groups superalgebras and supergroups groups and quantum groups noncommutative geometry symmetries of linear and nonlinear partial differential operators special functions and others Furthermore the necessary tools from functional analysis are included This is a big interdisciplinary and interrelated field The topics covered in this Volume are the most modern trends in the field of the Workshop Representation Theory Symmetries in String Theories Symmetries in Gravity Theories Supergravity Conformal Field Theory Integrable Systems Quantum Computing and Deep Learning Entanglement Applications to Quantum Theory Exceptional quantum algebra for the standard model of particle physics Gauge Theories and Applications Structures on Lie Groups and Lie Algebras This book is suitable for a broad audience of mathematicians mathematical physicists and theoretical physicists including researchers and graduate students interested in Lie Theory

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

Defense Acquisition Trends, 2015 Jesse Ellman, Andrew P. Hunter, Rhys McCormick, Gregory Sanders, 2016-02-19 This study examines contracting trends at the U S Department of Defense DoD It relies on empirical analysis of DoD contracting transaction data from the open source Federal Procurement Data System FPDS The authors seek to identify and study emergent trends in the contracting data and marry that analysis with discussion of changing goals and methods for the larger acquisition system

Studies in Intelligence, 2016

Diophantine Approximation and the Geometry of Limit Sets in Gromov Hyperbolic Metric Spaces Lior Fishman, David

Simmons, Mariusz Urbański, 2018-08-09 In this paper the authors provide a complete theory of Diophantine approximation in the limit set of a group acting on a Gromov hyperbolic metric space This summarizes and completes a long line of results by many authors from Patterson's classic 1976 paper to more recent results of Hersensky and Paulin 2002 2004 2007 The authors consider concrete examples of situations which have not been considered before These include geometrically infinite Kleinian groups geometrically finite Kleinian groups where the approximating point is not a fixed point of any element of the group and groups acting on infinite dimensional hyperbolic space Moreover in addition to providing much greater generality than any prior work of which the authors are aware the results also give new insight into the nature of the connection between Diophantine approximation and the geometry of the limit set within which it takes place Two results are also contained here which are purely geometric a generalization of a theorem of Bishop and Jones 1997 to Gromov hyperbolic metric spaces and a proof that the uniformly radial limit set of a group acting on a proper geodesic Gromov hyperbolic metric space has zero Patterson Sullivan measure unless the group is quasiconvex cocompact The latter is an application of a Diophantine theorem

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