1
The edge-isoperimetric problem

1.1 Basic definitions

A *graph*, $G = (V, E, \partial)$, consists of a vertex-set V, edge-set E and boundary-function $\partial : E \to \binom{V}{1} + \binom{V}{2}$ which identifies the pair of vertices (not necessarily distinct) incident to each edge. Graphs are often represented by *diagrams* where vertices are points, and edges are curves connecting the pair of incident vertices. For any graph G, and $S \subseteq V$, we define

$$\Theta(S) = \{e \in E : \partial(e) = \{v, w\}, \ v \in S \ \& \ w \notin S\},$$

and call it the *edge-boundary* of S. Then given a graph G, and $k \in \mathbb{Z}^+$, *the edge-isoperimetric problem* (EIP) is to minimize $|\Theta(S)|$ over all $S \subseteq V$ such that $|S| = k$. Note that $|\Theta(S)|$ is an *invariant*, i.e. if $\phi : G \to H$ is a graph isomorphism, then $\forall S \subseteq V_G$, $|\Theta(\phi(S))| = |\Theta(S)|$. Thus subsets of vertices which are equivalent under an automorphism will have the same edge-boundary.

Loops, i.e. edges incident to just one vertex, are irrelevant to the EIP so we shall ignore them. Most, but not all, of our graphs will be *ordinary graphs*, i.e. having no loops and no more than one edge incident to any pair of vertices. The representation of an ordinary graph may be shortened to (V, E), where $E \subseteq \binom{V}{2}$, and ∂ is implicitly the identity.

1.2 Examples

1.2.1 K_n, the complete graph on n vertices

K_n has n vertices with $E = \binom{V}{2}$, i.e. there is an edge between every pair of distinct vertices. For every $S \subseteq V$ such that $|S| = k$, $|\Theta(S)| = |S \times (V - S)| = k(n - k)$. So the EIP on K_n is easy: any k-set is a solution.

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Global Methods For Combinatorial Isoperimetric Problems

RS Peters

Global Methods For Combinatorial Isoperimetric Problems:

Global Methods for Combinatorial Isoperimetric Problems L. H. Harper,2006-05-16 This text explores global methods in combinatorial optimization and is suitable for graduate students and researchers **Global Methods for Combinatorial Isoperimetric Problems** Lawrence Hueston Harper,2004 Based on Professor Harper s substantial experience in teaching global methods in combinatorial optimisation and is ideal for graduate students entering the field as well as experienced researchers The author has increased the utility of the text for teaching by including worked examples exercises and material about applications to computer science *Computing and Combinatorics* Xiaodong Hu,Jie Wang,2008-06-19 The refereed proceedings of the 14th Annual International Computing and Combinatorics Conference COCOON 2008 held in Dalian China in June 2008 The 66 revised full papers presented were carefully reviewed and selected from 172 submissions The papers are organized in topical sections on algorithms and data structures algorithmic game theory and online algorithms automata languages logic and computability combinatorics related to algorithms and complexity complexity theory cryptography reliability and security and database theory computational biology and bioinformatics computational algebra geometry and number theory graph drawing and information visualization graph theory and algorithms communication networks and optimization wireless network network optimization and scheduling problem

Wisdom Of Solomon, The: The Genius And Legacy Of Solomon Golomb Beatrice A Golomb,Guang G Gong,Alfred W Hales,2023-07-07 Solomon Wolf Golomb left an unparalleled legacy of accomplishment and recognition for his work in the applications of mathematics to coding and communication theory His legacy also includes a host of individuals whose lives and careers were immeasurably enriched by their interactions with him The co editors have attempted to collect many articles essays in this volume of a not too technical sort by a representative collection of such individuals Among their motivations is the wish to convince the reader of the incredibly prescient choice of his given name The first section consists of three articles which have already appeared elsewhere by noted experts in the fields where the majority of Sol s contributions lie mathematics computer science and electrical engineering The second section consists of three articles by the co editors in memory of and tribute to Sol The third section contains 25 30 articles by Sol s family friends students colleagues etc They cover a great range of topics and vary widely in length technicality and other aspects In the last section are contributions by Sol himself covering various aspects of his career and interests as well as other related material

Graph-Theoretic Problems and Their New Applications Frank Werner,2020-05-27 Graph theory is an important area of applied mathematics with a broad spectrum of applications in many fields This book results from aSpecialIssue in the journal Mathematics entitled Graph Theoretic Problems and Their New Applications It contains 20 articles covering a broad spectrum of graph theoretic works that were selected from 151 submitted papers after a thorough refereeing process Among others it includes a deep survey on mixed graphs and their use for solutions ti scheduling problems Other subjects include

topological indices domination numbers of graphs domination games contraction mappings and neutrosophic graphs Several applications of graph theory are discussed e g the use of graph theory in the context of molecular processes *Lectures on Advances in Combinatorics* Rudolf Ahlswede,Vladimir Blinovsky,2008-05-17 The lectures concentrate on highlights in Combinatorial ChaptersII and III and Number Theoretical ChapterIV Extremal Theory in particular on the solution of famous problems which were open for many decades However the organization of the lectures in six chapters does neither follow the historic developments nor the connections between ideas in several cases With the speci ed auxiliary results in ChapterI on Probability Theory Graph Theory etc all chapters can be read and taught independently of one another In addition to the 16 lectures organized in 6 chapters of the main part of the book there is supplementary material for most of them in the Appendix In parti lar there are applications and further exercises research problems conjectures and even research programs The following books and reports B97 ACDKPSWZ00 A01 and ABCABDM06 mostly of the authors are frequently cited in this book especially in the Appendix and we therefore mark them by short labels as B N E and G We emphasize that there are also Exercises in B a Problem Section with contributions by several authors on pages 1063 1105 of G which are often of a combinatorial nature and Problems and Conjectures on pages 172 173 of E **Pattern Recognition on Oriented Matroids** Andrey O. Matveev,2017-09-11 Pattern Recognition on Oriented Matroids covers a range of innovative problems in combinatorics poset and graph theories optimization and number theory that constitute a far reaching extension of the arsenal of committee methods in pattern recognition The groundwork for the modern committee theory was laid in the mid 1960s when it was shown that the familiar notion of solution to a feasible system of linear inequalities has ingenious analogues which can serve as collective solutions to infeasible systems A hierarchy of dialects in the language of mathematics for instance open cones in the context of linear inequality systems regions of hyperplane arrangements and maximal covectors or topes of oriented matroids provides an excellent opportunity to take a fresh look at the infeasible system of homogeneous strict linear inequalities the standard working model for the contradictory two class pattern recognition problem in its geometric setting The universal language of oriented matroid theory considerably simplifies a structural and enumerative analysis of applied aspects of the infeasibility phenomenon The present book is devoted to several selected topics in the emerging theory of pattern recognition on oriented matroids the questions of existence and applicability of matroidal generalizations of committee decision rules and related graph theoretic constructions to oriented matroids with very weak restrictions on their structural properties a study in which in particular interesting subsequences of the Farey sequence appear naturally of the hierarchy of the corresponding tope committees a description of the three tope committees that are the most attractive approximation to the notion of solution to an infeasible system of linear constraints an application of convexity in oriented matroids as well as blocker constructions in combinatorial optimization and in poset theory to enumerative problems on tope committees an attempt to clarify how elementary changes one element

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Mashurian,2006-12-08 This book collects 63 revised full papers contributed to a research project on the General Theory of Information Transfer and Combinatorics that was hosted from 2001 2004 at the Center for Interdisciplinary Research ZIF of Bielefeld University and several incorporated meetings Topics covered include probabilistic models cryptology pseudo random sequences quantum models pattern discovery language evolution and network coding **Algorithms and Architectures for Parallel Processing** Jaideep Vaidya,Jin Li,2018-12-07 The four volume set LNCS 11334 11337 constitutes the proceedings of the 18th International Conference on Algorithms and Architectures for Parallel Processing ICA3PP 2018 held in Guangzhou China in November 2018 The 141 full and 50 short papers presented were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on Distributed and Parallel Computing High Performance Computing Big Data and Information Processing Internet of Things and Cloud Computing and Security and Privacy in Computing **Algorithms and Discrete Applied Mathematics** Daya Gaur,N.S. Narayanaswamy,2017-01-24 This book constitutes the proceedings of the Third International Conference on Algorithms and Discrete Applied Mathematics CALDAM 2017 held in Goa India in February 2017 The 32 papers presented in this volume were carefully reviewed and selected from 103 submissions They deal with the following areas algorithms graph theory codes polyhedral combinatorics computational geometry and discrete geometry **Transmitting and Gaining Data** Rudolf Ahlswede,2014-11-15 The calculation of channel capacities was one of Rudolf Ahlswede s specialties and is the main topic of this second volume of his Lectures on Information Theory Here we find a detailed account of some very classical material from the early days of Information Theory including developments from the USA Russia Hungary and which Ahlswede was probably in a unique position to describe the German school centered around his supervisor Konrad Jacobs These lectures made an approach to a rigorous justification of the foundations of Information Theory This is the second of several volumes documenting Rudolf Ahlswede s lectures on Information Theory Each volume includes comments from an invited well known expert In the supplement to the present volume Gerhard Kramer contributes his insights Classical information processing concerns the main tasks of gaining knowledge and the storage transmission and hiding of data The first task is the prime goal of Statistics For transmission and hiding data Shannon developed an impressive mathematical theory called Information Theory which he based on probabilistic models The theory largely involves the concept of codes with small error probabilities in spite of noise in the transmission which is modeled by channels The lectures presented in this work are suitable for graduate students in Mathematics and also for those working in Theoretical Computer Science Physics and Electrical Engineering with a background in basic Mathematics The lectures can be used as the basis for courses or to supplement courses in many ways Ph D students will also find research problems often with conjectures that offer potential subjects for a thesis More advanced researchers may find questions which form the basis of entire research programs *Automorphic Representations and L-Functions for the General Linear Group: Volume 2* Dorian Goldfeld,Joseph Hundley,2011-04-21 This

graduate level textbook provides an elementary exposition of the theory of automorphic representations and L functions for the general linear group in an adelic setting Definitions are kept to a minimum and repeated when reintroduced so that the book is accessible from any entry point and with no prior knowledge of representation theory The book includes concrete examples of global and local representations of GL n and presents their associated L functions In Volume 1 the theory is developed from first principles for GL 1 then carefully extended to GL 2 with complete detailed proofs of key theorems Several proofs are presented for the first time including Jacquet s simple and elegant proof of the tensor product theorem In Volume 2 the higher rank situation of GL n is given a detailed treatment Containing numerous exercises by Xander Faber this book will motivate students and researchers to begin working in this fertile field of research **Special Functions** Richard Beals,Roderick Wong,2010-08-12 The subject of special functions is often presented as a collection of disparate results which are rarely organised in a coherent way This book answers the need for a different approach to the subject The authors main goals are to emphasise general unifying principles coherently and to provide clear motivation efficient proofs and original references for all of the principal results The book covers standard material but also much more including chapters on discrete orthogonal polynomials and elliptic functions The authors show how a very large part of the subject traces back to two equations the hypergeometric equation and the confluent hypergeometric equation and describe the various ways in which these equations are canonical and special Providing ready access to theory and formulas this book serves as an ideal graduate level textbook as well as a convenient reference *Zeta Functions of Graphs* Audrey Terras,2010-11-18 Graph theory meets number theory in this stimulating book Ihara zeta functions of finite graphs are reciprocals of polynomials sometimes in several variables Analogies abound with number theoretic functions such as Riemann Dedekind zeta functions For example there is a Riemann hypothesis which may be false and prime number theorem for graphs Explicit constructions of graph coverings use Galois theory to generalize Cayley and Schreier graphs Then non isomorphic simple graphs with the same zeta are produced showing you cannot hear the shape of a graph The spectra of matrices such as the adjacency and edge adjacency matrices of a graph are essential to the plot of this book which makes connections with quantum chaos and random matrix theory plus expander Ramanujan graphs of interest in computer science Created for beginning graduate students the book will also appeal to researchers Many well chosen illustrations and exercises both theoretical and computer based are included throughout **New Foundations for Information Theory** David Ellerman,2021-10-30 This monograph offers a new foundation for information theory that is based on the notion of information as distinctions being directly measured by logical entropy and on the re quantification as Shannon entropy which is the fundamental concept for the theory of coding and communications Information is based on distinctions differences distinguishability and diversity Information sets are defined that express the distinctions made by a partition e g the inverse image of a random variable so they represent the pre probability notion of information Then logical entropy is a probability measure on the information sets

the probability that on two independent trials a distinction or dit of the partition will be obtained The formula for logical entropy is a new derivation of an old formula that goes back to the early twentieth century and has been re derived many times in different contexts As a probability measure all the compound notions of joint conditional and mutual logical entropy are immediate The Shannon entropy which is not defined as a measure in the sense of measure theory and its compound notions are then derived from a non linear dit to bit transform that re quantifies the distinctions of a random variable in terms of bits so the Shannon entropy is the average number of binary distinctions or bits necessary to make all the distinctions of the random variable And using a linearization method all the set concepts in this logical information theory naturally extend to vector spaces in general and to Hilbert spaces in particular for quantum logical information theory which provides the natural measure of the distinctions made in quantum measurement Relatively short but dense in content this work can be a reference to researchers and graduate students doing investigations in information theory maximum entropy methods in physics engineering and statistics and to all those with a special interest in a new approach to quantum information theory **Geometric Analysis** Peter Li,2012-05-03 This graduate level text demonstrates the basic techniques for researchers interested in the field of geometric analysis **Enumerative Combinatorics: Volume 1** Richard P. Stanley,2012 Richard Stanley s two volume basic introduction to enumerative combinatorics has become the standard guide to the topic for students and experts alike This thoroughly revised second edition of Volume 1 includes ten new sections and more than 300 new exercises most with solutions reflecting numerous new developments since the publication of the first edition in 1986 The author brings the coverage up to date and includes a wide variety of additional applications and examples as well as updated and expanded chapter bibliographies Many of the less difficult new exercises have no solutions so that they can more easily be assigned to students The material on P partitions has been rearranged and generalized the treatment of permutation statistics has been greatly enlarged and there are also new sections on q analogues of permutations hyperplane arrangements the cd index promotion and evacuation and differential posets

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