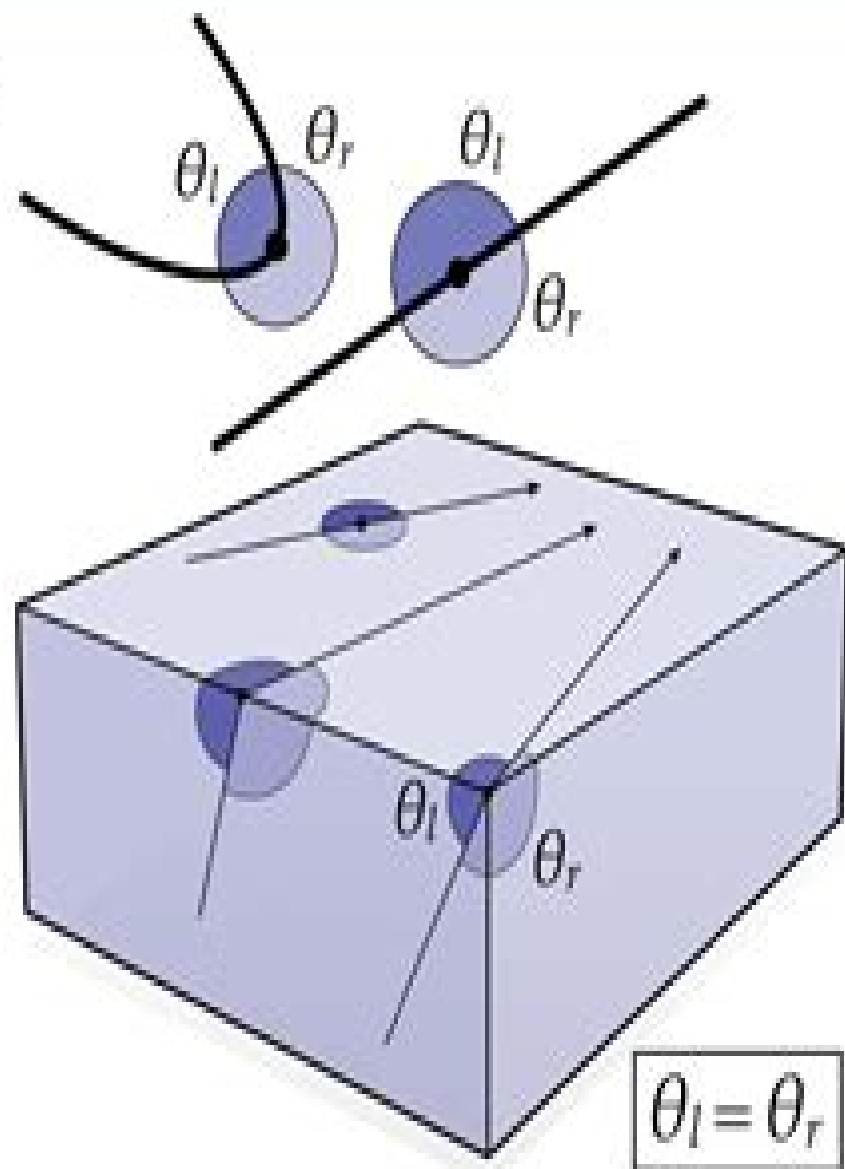


Discrete Straightest Geodesics

- In the smooth setting, characterized geodesics as curves with zero geodesic curvature
- In the discrete setting, have a hard time at vertices: can't unfold, no *shortest* paths through some vertices...
- Alternative smooth characterization: just have same angle on either side of the curve
- Translates naturally to the discrete setting: equal angle sum on either side of the curve
- Provides definition of discrete **straightest** geodesics (Polthier & Schmies 1998)



Lectures On Discrete Geometry Lectures On Discrete Geometry

Rudolf Ahlswede, Vladimir Blinovsky



Lectures On Discrete Geometry Lectures On Discrete Geometry:

Lectures on Discrete Geometry , **Lectures on Discrete Geometry** J. Matoušek, 2014-09-01 *Lectures on Discrete Geometry* Jiří Matoušek, 2002-05-02 The main topics in this introductory text to discrete geometry include basics on convex sets convex polytopes and hyperplane arrangements combinatorial complexity of geometric configurations intersection patterns and transversals of convex sets geometric Ramsey type results and embeddings of finite metric spaces into normed spaces In each area the text explains several key results and methods *Lectures on Sphere Arrangements - the Discrete Geometric Side* Károly Bezdek, 2013-08-04 This monograph gives a short introduction to the relevant modern parts of discrete geometry in addition to leading the reader to the frontiers of geometric research on sphere arrangements The readership is aimed at advanced undergraduate and early graduate students as well as interested researchers It contains more than 40 open research problems ideal for graduate students and researchers in mathematics and computer science Additionally this book may be considered ideal for a one semester advanced undergraduate or graduate level course The core part of this book is based on three lectures given by the author at the Fields Institute during the thematic program on Discrete Geometry and Applications and contains four core topics The first two topics surround active areas that have been outstanding from the birth of discrete geometry namely dense sphere packings and tilings Sphere packings and tilings have a very strong connection to number theory coding groups and mathematical programming Extending the tradition of studying packings of spheres is the investigation of the monotonicity of volume under contractions of arbitrary arrangements of spheres The third major topic of this book can be found under the sections on ball polyhedra that study the possibility of extending the theory of convex polytopes to the family of intersections of congruent balls This section of the text is connected in many ways to the above mentioned major topics and it is also connected to some other important research areas as the one on coverings by planks with close ties to geometric analysis This fourth core topic is discussed under covering balls by cylinders *Lectures on Polytopes* Günter M. Ziegler, 2012-12-06 Based on a graduate course at the Technische Universität Berlin these lectures present a wealth of material on the modern theory of convex polytopes The straightforward exposition features many illustrations and complete proofs for most theorems With only linear algebra as a prerequisite it takes the reader quickly from the basics to topics of recent research The lectures introduce basic facts about polytopes with an emphasis on methods that yield the results discuss important examples and elegant constructions and show the excitement of current work in the field They will provide interesting and enjoyable reading for researchers as well as students

Symmetries and Integrability of Difference Equations Decio Levi, Peter Olver, Zora Thomova, Pavel Winternitz, 2011-06-23 Difference equations are playing an increasingly important role in the natural sciences Indeed many phenomena are inherently discrete and are naturally described by difference equations Phenomena described by differential equations are therefore approximations of more basic discrete ones Moreover in their study it is very often necessary to

resort to numerical methods This always involves a discretization of the differential equations involved thus replacing them by difference equations This book shows how Lie group and integrability techniques originally developed for differential equations have been adapted to the case of difference ones Each of the eleven chapters is a self contained treatment of a topic containing introductory material as well as the latest research results The book will be welcomed by graduate students and researchers seeking an introduction to the field As a survey of the current state of the art it will also serve as a valuable reference

Graphs for Pattern Recognition Damir Gainanov, 2016-10-10 This monograph deals with mathematical constructions that are foundational in such an important area of data mining as pattern recognition By using combinatorial and graph theoretic techniques a closer look is taken at infeasible systems of linear inequalities whose generalized solutions act as building blocks of geometric decision rules for pattern recognition Infeasible systems of linear inequalities prove to be a key object in pattern recognition problems described in geometric terms thanks to the committee method Such infeasible systems of inequalities represent an important special subclass of infeasible systems of constraints with a monotonicity property systems whose multi indices of feasible subsystems form abstract simplicial complexes independence systems which are fundamental objects of combinatorial topology The methods of data mining and machine learning discussed in this monograph form the foundation of technologies like big data and deep learning which play a growing role in many areas of human technology interaction and help to find solutions better solutions and excellent solutions Contents Preface Pattern recognition infeasible systems of linear inequalities and graphs Infeasible monotone systems of constraints Complexes hyper graphs and inequality systems Polytopes positive bases and inequality systems Monotone Boolean functions complexes graphs and inequality systems Inequality systems committees hyper graphs and alternative covers Bibliography List of notation Index

Volume Graphics Min Chen, Arie E. Kaufman, Roni Yagel, 2012-12-06 Min Chen Arie E Kaufman and Roni Yagel Volume graphics is concerned with graphics scenes defined in volume data types where a model is specified by a mass of points instead of a collection of surfaces The underlying mathematical definition of such a model is a set of scalar fields which define the geometrical and physical properties of every point in three dimensional space As true 3D representations volume data types possess more descriptive power than surface data types and are morphologically closer to many high level modelling schemes in traditional surface graphics such as parametric surfaces implicit surfaces and volume sweeping The past decade has witnessed significant advances in volume visualisation driven mainly by applications such as medical imaging and scientific computation The work in this field has produced a number of volume rendering methods that enable 3D information in a volumetric dataset to be selectively rendered into 2D images With modern computer hardware such a process can easily be performed on an ordinary workstation More importantly volume based rendering offers a consistent solution to the primary deficiencies of the traditional surface based rendering which include its inability to encapsulate the internal description of a model and the difficulties in rendering amorphous phenomena The emergence of volume based

techniques has not only broadened the extent of graphics applications but also brought computer graphics closer to other scientific and engineering disciplines including image processing computer vision finite element analysis and rapid prototyping

Polynomial Methods and Incidence Theory Adam Sheffer, 2022-03-24 A thorough yet accessible introduction to the mathematical breakthroughs achieved by using new polynomial methods in the past decade

A First Course in Modular Forms Fred Diamond, Jerry Shurman, 2006-03-30 This book introduces the theory of modular forms with an eye toward the Modularity Theorem All rational elliptic curves arise from modular forms The topics covered include elliptic curves as complex tori and as algebraic curves modular curves as Riemann surfaces and as algebraic curves Hecke operators and Atkin Lehner theory Hecke eigenforms and their arithmetic properties the Jacobians of modular curves and the Abelian varieties associated to Hecke eigenforms elliptic and modular curves modulo p and the Eichler Shimura Relation the Galois representations associated to elliptic curves and to Hecke eigenforms As it presents these ideas the book states the Modularity Theorem in various forms relating them to each other and touching on their applications to number theory A First Course in Modular Forms is written for beginning graduate students and advanced undergraduates It does not require background in algebraic number theory or algebraic geometry and it contains exercises throughout Fred Diamond received his Ph D from Princeton University in 1988 under the direction of Andrew Wiles and now teaches at King's College London Jerry Shurman received his Ph D from Princeton University in 1988 under the direction of Goro Shimura and now teaches at Reed College

Concentration of Measure for the Analysis of Randomized Algorithms Devdatt P. Dubhashi, Alessandro Panconesi, 2009-06-15 Randomized algorithms have become a central part of the algorithms curriculum based on their increasingly widespread use in modern applications This book presents a coherent and unified treatment of probabilistic techniques for obtaining high probability estimates on the performance of randomized algorithms It covers the basic toolkit from the Chernoff Hoeffding bounds to more sophisticated techniques like martingales and isoperimetric inequalities as well as some recent developments like Talagrand's inequality transportation cost inequalities and log Sobolev inequalities Along the way variations on the basic theme are examined such as Chernoff Hoeffding bounds in dependent settings The authors emphasise comparative study of the different methods highlighting respective strengths and weaknesses in concrete example applications The exposition is tailored to discrete settings sufficient for the analysis of algorithms avoiding unnecessary measure theoretic details thus making the book accessible to computer scientists as well as probabilists and discrete mathematicians

Numbers and Figures Giancarlo Travaglini, 2023-05-31 One of the great charms of mathematics is uncovering unexpected connections In Numbers and Figures Giancarlo Travaglini provides six conversations that do exactly that by talking about several topics in elementary number theory and some of their connections to geometry calculus and real life problems such as COVID 19 vaccines or fiscal frauds Each conversation is in two parts an introductory essay which provides a gentle introduction to the topic and a second section that delves deeper and requires study by the reader The

topics themselves are extremely appealing and include for example Pick's theorem, Simpson's paradox, Farey sequences, the Frobenius problem, and Benford's Law. Numbers and Figures will be a useful resource for college faculty teaching Elementary Number Theory or Calculus. The chapters are largely independent and could make for nice course ending projects or even lead-ins to high school or undergraduate research projects. The whole book would make for an enjoyable semester-long independent reading course. Faculty will find it entertaining bedtime reading, and last but not least, readers more generally will be interested in this book if they miss the accuracy and imagination found in their high school and college math courses.

Harmonic Analysis and Convexity Alexander Koldobsky, Alexander Volberg, 2023-07-24 In recent years, the interaction between harmonic analysis and convex geometry has increased, which has resulted in solutions to several long-standing problems. This collection is based on the topics discussed during the Research Semester on Harmonic Analysis and Convexity at the Institute for Computational and Experimental Research in Mathematics in Providence, RI, in Fall 2022. The volume brings together experts working in related fields to report on the status of major problems in the area, including the isomorphic Busemann-Petty and slicing problems for arbitrary measures, extremal problems for Fourier extension, and extremal problems for classical singular integrals of martingale type, among others.

Circuits and Systems for Security and Privacy Farhana Sheikh, Leonel Sousa, 2017-12-19 *Circuits and Systems for Security and Privacy* begins by introducing the basic theoretical concepts and arithmetic used in algorithms for security and cryptography, and by reviewing the fundamental building blocks of cryptographic systems. It then analyzes the advantages and disadvantages of real-world implementations that not only optimize power area and throughput but also resist side-channel attacks. Merging the perspectives of experts from industry and academia, the book provides valuable insight and necessary background for the design of security-aware circuits and systems, as well as efficient accelerators used in security applications.

Mathematics and Materials Mark J. Bowick, David Kinderlehrer, Govind Menon, Charles Radin, 2017-08-25 A co-publication of the AMS IAS Park City Mathematics Institute and Society for Industrial and Applied Mathematics. Articles in this volume are based on lectures presented at the Park City summer school on Mathematics and Materials in July 2014. The central theme is a description of material behavior that is rooted in statistical mechanics. While many presentations of mathematical problems in materials science begin with continuum mechanics, this volume takes an alternate approach. All the lectures present unique pedagogical introductions to the rich variety of material behavior that emerges from the interplay of geometry and statistical mechanics. The topics include the order-disorder transition in many geometric models of materials, including nonlinear elasticity, sphere packings, granular materials, liquid crystals, and the emerging field of synthetic self-assembly. Several lectures touch on discrete geometry, especially packing and statistical mechanics. The problems discussed in this book have an immediate mathematical appeal and are of increasing importance in applications, but are not as widely known as they should be to mathematicians interested in materials science. The volume will be of interest to graduate students and researchers in analysis and partial

differential equations continuum mechanics condensed matter physics discrete geometry and mathematical physics Titles in this series are co published with the Institute for Advanced Study Park City Mathematics Institute Members of the Mathematical Association of America MAA and the National Council of Teachers of Mathematics NCTM receive a 20% discount from list price NOTE This discount does not apply to volumes in this series co published with the Society for Industrial and Applied Mathematics SIAM Beyond Traditional Probabilistic Data Processing Techniques: Interval, Fuzzy etc. Methods and Their Applications Olga Kosheleva, Sergey P. Shary, Gang Xiang, Roman Zapatrin, 2020-02-28 Data processing has become essential to modern civilization The original data for this processing comes from measurements or from experts and both sources are subject to uncertainty Traditionally probabilistic methods have been used to process uncertainty However in many practical situations we do not know the corresponding probabilities in measurements we often only know the upper bound on the measurement errors this is known as interval uncertainty In turn expert estimates often include imprecise fuzzy words from natural language such as small this is known as fuzzy uncertainty In this book leading specialists on interval fuzzy probabilistic uncertainty and their combination describe state of the art developments in their research areas Accordingly the book offers a valuable guide for researchers and practitioners interested in data processing under uncertainty and an introduction to the latest trends and techniques in this area suitable for graduate students

Convexity from the Geometric Point of View Vitor Balestro, Horst Martini, Ralph Teixeira, 2024-07-14 This text gives a comprehensive introduction to the common core of convex geometry Basic concepts and tools which are present in all branches of that field are presented with a highly didactic approach Mainly directed to graduate and advanced undergraduates the book is self contained in such a way that it can be read by anyone who has standard undergraduate knowledge of analysis and of linear algebra Additionally it can be used as a single reference for a complete introduction to convex geometry and the content coverage is sufficiently broad that the reader may gain a glimpse of the entire breadth of the field and various subfields The book is suitable as a primary text for courses in convex geometry and also in discrete geometry including polytopes It is also appropriate for survey type courses in Banach space theory convex analysis differential geometry and applications of measure theory Solutions to all exercises are available to instructors who adopt the text for coursework Most chapters use the same structure with the first part presenting theory and the next containing a healthy range of exercises Some of the exercises may even be considered as short introductions to ideas which are not covered in the theory portion Each chapter has a notes section offering a rich narrative to accompany the theory illuminating the development of ideas and providing overviews to the literature concerning the covered topics In most cases these notes bring the reader to the research front The text includes many figures that illustrate concepts and some parts of the proofs enabling the reader to have a better understanding of the geometric meaning of the ideas An appendix containing basic and geometric measure theory collects useful information for convex geometers Classical Topics in Discrete Geometry Károly

Bezdek,2010-06-23 Geometry is a classical core part of mathematics which with its birth marked the beginning of the mathematical sciences Thus not surprisingly geometry has played a key role in many important developments of mathematics in the past as well as in present times While focusing on modern mathematics one has to emphasize the increasing role of discrete mathematics or equivalently the broad movement to establish discrete analogues of major components of mathematics In this way the works of a number of outstanding mathematicians including H S M Coxeter Canada C A Rogers United Kingdom and L Fejes Tóth Hungary led to the new and fast developing field called discrete geometry One can briefly describe this branch of geometry as the study of discrete arrangements of geometric objects in Euclidean as well as in non Euclidean spaces This as a classical core part also includes the theory of polytopes and tilings in addition to the theory of packing and covering Discrete geometry is driven by problems often featuring a very clear visual and applied character The solutions use a variety of methods of modern mathematics including convex and combinatorial geometry coding theory calculus of variations differential geometry group theory and topology as well as geometric analysis and number theory

Substitution and Tiling Dynamics: Introduction to Self-inducing Structures Shigeki Akiyama,Pierre Arnoux,2020-12-05 This book presents a panorama of recent developments in the theory of tilings and related dynamical systems It contains an expanded version of courses given in 2017 at the research school associated with the Jean Morlet chair program Tilings have been designed used and studied for centuries in various contexts This field grew significantly after the discovery of aperiodic self similar tilings in the 60s linked to the proof of the undecidability of the Domino problem and was driven further by Dan Shechtman's discovery of quasicrystals in 1984 Tiling problems establish a bridge between the mutually influential fields of geometry dynamical systems aperiodic order computer science number theory algebra and logic The main properties of tiling dynamical systems are covered with expositions on recent results in self similarity and its generalizations fusion rules and S-adic systems algebraic developments connected to physics games and undecidability questions and the spectrum of substitution tilings *Lectures on Advances in Combinatorics* Rudolf Ahlswede,Vladimir Blinovsky,2008-05-17 The lectures concentrate on highlights in Combinatorial Chapters II and III and Number Theoretical Chapter IV 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 specified auxiliary results in Chapter I 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 particular 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

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