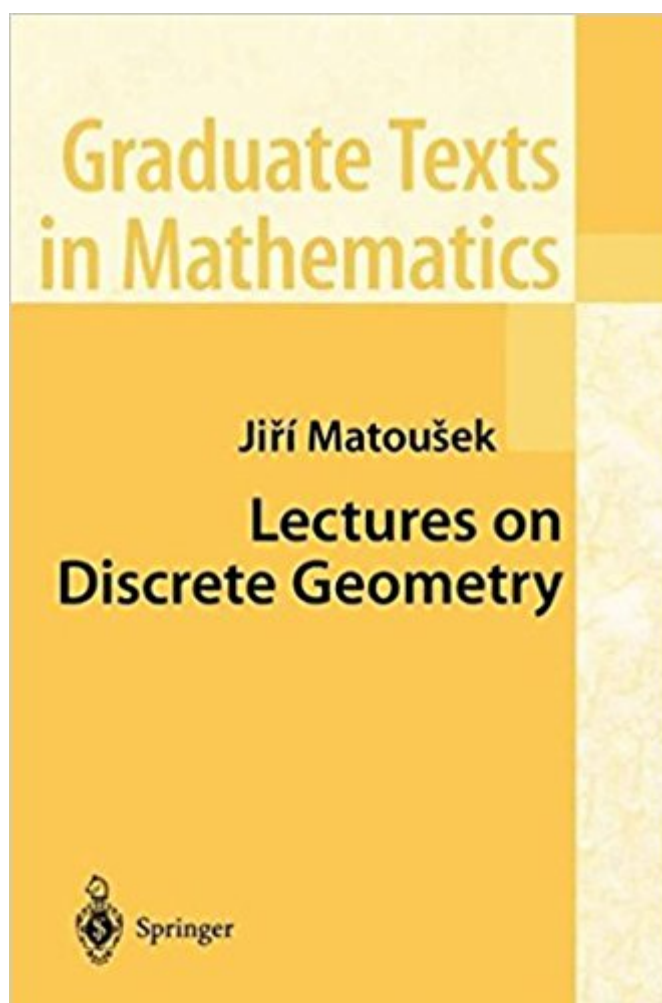


The book was found

Lectures On Discrete Geometry (Graduate Texts In Mathematics)



Synopsis

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.

Book Information

Series: Graduate Texts in Mathematics (Book 212)

Paperback: 486 pages

Publisher: Springer; Softcover reprint of the original 1st ed. 2002 edition (May 2, 2002)

Language: English

ISBN-10: 0387953744

ISBN-13: 978-0387953748

Product Dimensions: 6 x 1.1 x 9 inches

Shipping Weight: 1 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #849,290 in Books (See Top 100 in Books) #112 in Books > Science & Math > Mathematics > Geometry & Topology > Analytic Geometry #191 in Books > Science & Math > Mathematics > Reference #508 in Books > Textbooks > Science & Mathematics > Mathematics > Geometry

Customer Reviews

From the reviews: "Discrete geometry is not quite a newcomer on the stage of mathematics. The book under review covers a gap in the pedagogical literature, providing an expository treatment of a wide range of topics in discrete geometry, without assuming too many prerequisites from the reader. It will be ideal to be used both as a textbook and for self-study. In fact this book can be used as a mathematical companion to a textbook on computational geometry." (Paul A. Blaga, *Studia Universitatis Babes-Bolyai Mathematica*, Vol. XLVIII (1), March, 2004)

"Matoušek's excellent new book concerns discrete geometry. The style is clear and pleasant; things are streamlined and collected in one place, and are explained on simple, concrete examples. A final chapter on 'What was it about? An informal summary' was an innovation that I found to be an excellent idea. *Lectures on discrete geometry* is a splendid book. I recommend it both to students and researchers in the field, as well as to those who like mathematics for its own

inherent beauty." (Imre Bárány, Bulletin of the London Mathematical Society, Issue 35, 2003)

"This book is primarily a textbook introduction to various areas of discrete geometry. In each area, it explains several key results and methods, in an accessible and concrete manner. It also contains more advanced material in separate sections, and thus, it can serve as a collection of surveys in several narrower subfields." (L'ENSEIGNEMENT MATHÉMATIQUE, Vol. 48 (3-4), 2002)

"This is an introduction to the field of discrete geometry understood as the investigation of combinatorial properties of configurations of (usually finitely many) geometric objects. The book is written in a lively and stimulating but very precise style and contains many figures. It gives a good impression of the richness and the relevance of the field." (Johann Linhart, Zentralblatt Math, Vol. 999 (24), 2002)

Discrete geometry investigates combinatorial properties of configurations of geometric objects. To a working mathematician or computer scientist, it offers sophisticated results and techniques of great diversity and it is a foundation for fields such as computational geometry or combinatorial optimization. This book is primarily a textbook introduction to various areas of discrete geometry. In each area, it explains several key results and methods, in an accessible and concrete manner. It also contains more advanced material in separate sections and thus it can serve as a collection of surveys in several narrower subfields. The main topics 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; polyhedral combinatorics and high-dimensional convexity; and lastly, embeddings of finite metric spaces into normed spaces. Jiri Matousek is Professor of Computer Science at Charles University in Prague. His research has contributed to several of the considered areas and to their algorithmic applications. This is his third book.

hi,i'd like to thank you for excellent product and service.i got the book very shortly after ordering it, and much time(!) before your commitment.i found this book very helpful for my studies.thanks again,shai

[Download to continue reading...](#)

Lectures on Discrete Geometry (Graduate Texts in Mathematics) The Geometry of Discrete Groups (Graduate Texts in Mathematics) Modern Geometry • Methods and Applications: Part I: The Geometry of Surfaces, Transformation Groups, and Fields (Graduate Texts in Mathematics) (Pt. 1) Lectures on Polytopes (Graduate Texts in Mathematics) Discrete Mathematics: Elementary and Beyond (Undergraduate Texts in Mathematics) Commutative Algebra: with a View Toward Algebraic

Geometry (Graduate Texts in Mathematics) Differential Geometry: Connections, Curvature, and Characteristic Classes (Graduate Texts in Mathematics) Algebraic Geometry (Graduate Texts in Mathematics) Algebraic Geometry: A First Course (Graduate Texts in Mathematics) (v. 133) The Geometry of Schemes (Graduate Texts in Mathematics) Riemannian Holonomy Groups and Calibrated Geometry (Oxford Graduate Texts in Mathematics) Topology and Geometry (Graduate Texts in Mathematics) A Discrete Transition to Advanced Mathematics (Pure and Applied Undergraduate Texts) Geometry, Particles, and Fields (Graduate Texts in Contemporary Physics) Fractal Geometry and Dynamical Systems in Pure and Applied Mathematics I: Fractals in Pure Mathematics (Contemporary Mathematics) Advanced Mathematics: Precalculus With Discrete Mathematics and Data Analysis Discrete Mathematics with Graph Theory (Classic Version) (3rd Edition) (Pearson Modern Classics for Advanced Mathematics Series) A First Course in Discrete Mathematics (Springer Undergraduate Mathematics Series) Discrete Mathematics and Applications, Second Edition (Textbooks in Mathematics) Discrete and Combinatorial Mathematics (Classic Version) (5th Edition) (Pearson Modern Classics for Advanced Mathematics Series)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)