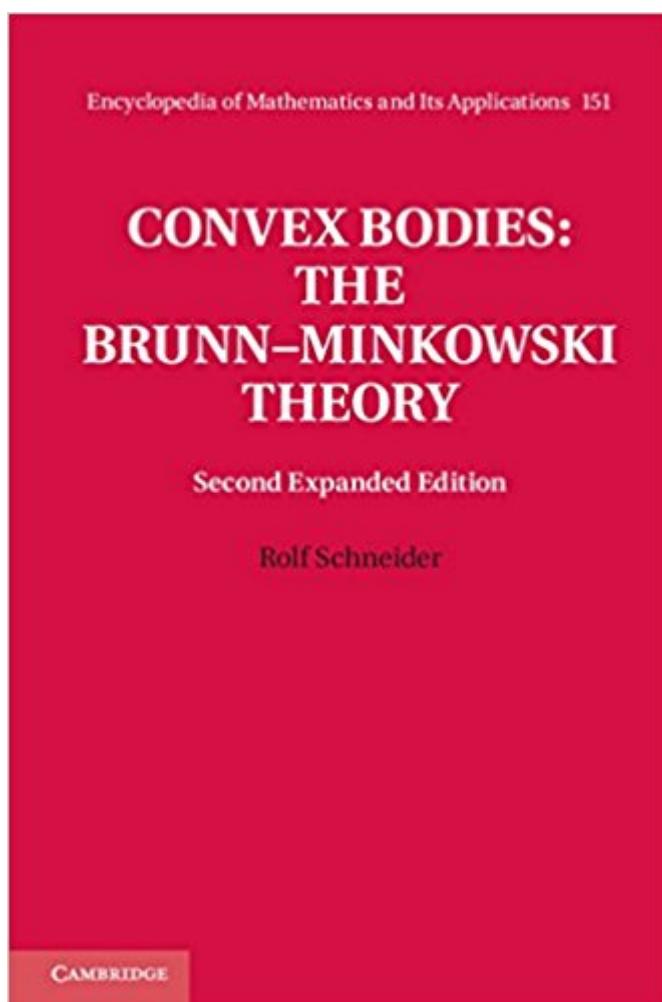


The book was found

# Convex Bodies: The Brunn-Minkowski Theory (Encyclopedia Of Mathematics And Its Applications)



## Synopsis

At the heart of this monograph is the Brunn-Minkowski theory, which can be used to great effect in studying such ideas as volume and surface area and their generalizations. In particular, the notions of mixed volume and mixed area measure arise naturally and the fundamental inequalities that are satisfied by mixed volumes are considered here in detail. The author presents a comprehensive introduction to convex bodies, including full proofs for some deeper theorems. The book provides hints and pointers to connections with other fields and an exhaustive reference list. This second edition has been considerably expanded to reflect the rapid developments of the past two decades. It includes new chapters on valuations on convex bodies, on extensions like the  $L_p$  Brunn-Minkowski theory, and on affine constructions and inequalities. There are also many supplements and updates to the original chapters, and a substantial expansion of chapter notes and references.

## Book Information

Series: Encyclopedia of Mathematics and its Applications (Book 151)

Hardcover: 760 pages

Publisher: Cambridge University Press; 2 edition (December 9, 2013)

Language: English

ISBN-10: 1107601010

ISBN-13: 978-1107601017

Product Dimensions: 6.1 x 1.6 x 9.2 inches

Shipping Weight: 2.6 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,032,278 in Books (See Top 100 in Books) #129 in Books > Science & Math > Mathematics > Geometry & Topology > Analytic Geometry #603 in Books > Textbooks > Science & Mathematics > Mathematics > Geometry

## Customer Reviews

Review of the first edition: 'Neither one of [the old classics] may be considered a substitute for the excellent detailed monograph written by Rolf Schneider. I recommend this book to everyone who appreciates the beauty of convexity theory or who uses the strength of geometric inequalities, and to any expert who needs a reliable reference book for his/her research.' V. Milman, Bulletin of the American Mathematical Society

Review of the first edition: 'Professor Schneider's book is the first comprehensive account of the Brunn-Minkowski theory and will immediately become the standard

reference for the Aleksandrov-Fenchel inequalities and the current knowledge concerning the cases of equality and estimates of their stability. The book is aimed at a broad audience from graduate students to working professionals. The presentation is very clear and I enjoyed reading it.' *Bulletin of the London Mathematical Society*

Now in its second edition, this classic text has been expanded to reflect significant developments in Brunn-Minkowski theory over the past two decades. It gives a complete presentation from basics to the exposition of current research, with full proofs, pointers to other fields and a fully updated reference list.

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

Convex Bodies: The Brunn-Minkowski Theory (Encyclopedia of Mathematics and its Applications)  
The Volume of Convex Bodies and Banach Space Geometry (Cambridge Tracts in Mathematics)  
The Wonders of the Colorado Desert (Southern California), Vol. 1 of 2: Its Rivers and Its Mountains, Its Canyons and Its Springs, Its Life and Its ... Journey Made Down the Overflow of the Colo  
Convex Analysis and Nonlinear Optimization: Theory and Examples (CMS Books in Mathematics) The Global Nonlinear Stability of the Minkowski Space (PMS-41) (Princeton Legacy Library) Convex Analysis (Princeton Landmarks in Mathematics and Physics) Interior Point Polynomial Algorithms in Convex Programming (Siam Studies in Applied Mathematics) Convex Optimization Theory Symbolism, Its Origins and Its Consequences (Art, Literature and Music in Symbolism, Its Origins and Its) Who Has What?: All About Girls' Bodies and Boys' Bodies (Let's Talk about You and Me) Bhakti and Embodiment: Fashioning Divine Bodies and Devotional Bodies in Krsna Bhakti (Routledge Hindu Studies Series) Graph Theory and Sparse Matrix Computation (The IMA Volumes in Mathematics and its Applications) Cryptography: Theory and Practice, Third Edition (Discrete Mathematics and Its Applications) Graph Theory and Its Applications, Second Edition (Textbooks in Mathematics) Introduction to Non-Abelian Class Field Theory, An: Automorphic Forms of Weight 1 and 2-Dimensional Galois Representations (Series on Number Theory and Its Applications) Convex Optimization Convex Optimization of Power Systems Rediscovering Northwest Denver: Its History, Its People, Its Landmarks Hood's Texas Brigade, Its Marches, Its Battles, Its Achievements America's Great Circus Parade: Its Roots, Its Revival, Its Revelry

[Contact Us](#)

[DMCA](#)

Privacy

FAQ & Help