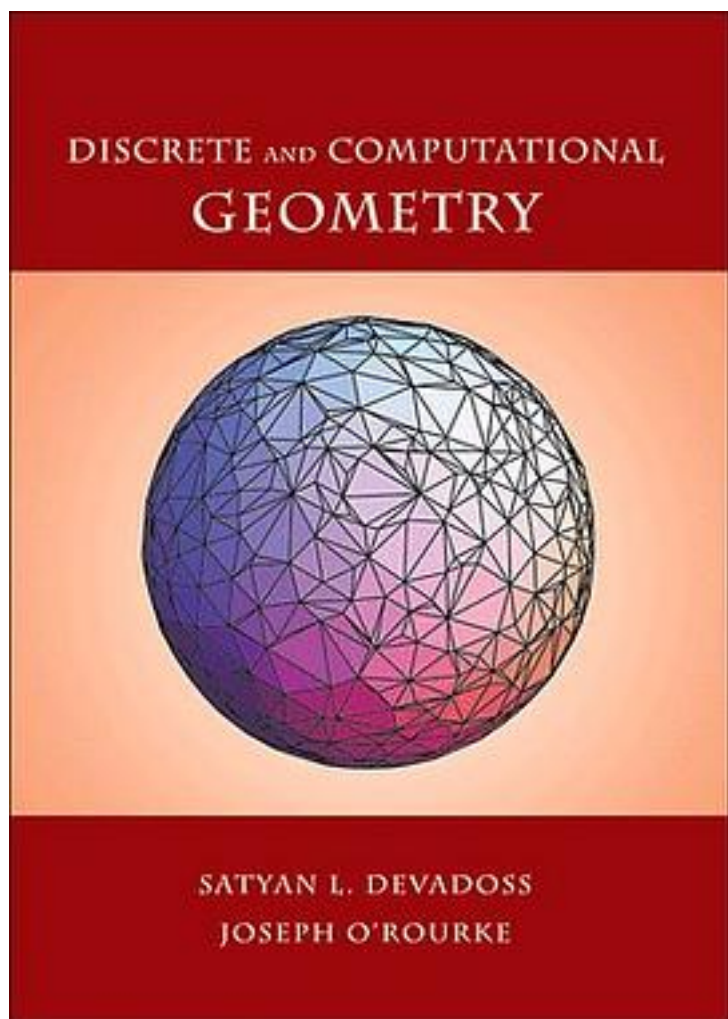


# Discrete and computational geometry



[Discrete and computational geometry\\_ 下载链接1](#)

著者:Satyan Devadoss

出版者:Princeton University Press

出版时间:2011-8-8

装帧:

isbn:9780691145532

Discrete geometry is a relatively new development in pure mathematics, while

computational geometry is an emerging area in applications-driven computer science. Their intermingling has yielded exciting advances in recent years, yet what has been lacking until now is an undergraduate textbook that bridges the gap between the two. Discrete and Computational Geometry offers a comprehensive yet accessible introduction to this cutting-edge frontier of mathematics and computer science. This book covers traditional topics such as convex hulls, triangulations, and Voronoi diagrams, as well as more recent subjects like pseudotriangulations, curve reconstruction, and locked chains. It also touches on more advanced material, including Dehn invariants, associahedra, quasigeodesics, Morse theory, and the recent resolution of the Poincaré conjecture. Connections to real-world applications are made throughout, and algorithms are presented independently of any programming language. This richly illustrated textbook also features numerous exercises and unsolved problems. The essential introduction to discrete and computational geometry Covers traditional topics as well as new and advanced material Features numerous full-color illustrations, exercises, and unsolved problems Suitable for sophomores in mathematics, computer science, engineering, or physics Rigorous but accessible An online solutions manual is available (for teachers only). To obtain access, please e-mail: Vickie\_Kearn@press.princeton.edu

### 作者介绍:

Satyan L. Devadoss is associate professor of mathematics at Williams College. Joseph O'Rourke is the Olin Professor of Computer Science and professor of mathematics at Smith College. His books include Geometric Folding Algorithms: Linkages, Origami, Polyhedra.

### 目录:

[Discrete and computational geometry\\_ 下载链接1](#)

## 标签

math

数学

geometry

计算机图形学

计算

算法

数学-微分几何

CS

评论

Joe my beloved 虽然有的时候真的很令人摸不着头脑

-----  
[Discrete and computational geometry 下载链接1](#)

书评

-----  
[Discrete and computational geometry 下载链接1](#)