



Handbook of Discrete and Computational Geometry, Second Edition (Discrete Mathematics and Its Applications)

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While high-quality books and journals in this field continue to proliferate, none has yet come close to matching the *Handbook of Discrete and Computational Geometry*, which in its first edition, quickly became the definitive reference work in its field. But with the rapid growth of the discipline and the many advances made over the past seven years, it's time to bring this standard-setting reference up to date.

Editors Jacob E. Goodman and Joseph O'Rourke reassembled their stellar panel of contributors, added many more, and together thoroughly revised their work to make the most important results and methods, both classic and cutting-edge, accessible in one convenient volume. Now over more than 1500 pages, the *Handbook of Discrete and Computational Geometry, Second Edition* once again provides unparalleled, authoritative coverage of theory, methods, and applications.

Highlights of the Second Edition:

- Thirteen new chapters: Five on applications and others on collision detection, nearest neighbors in high-dimensional spaces, curve and surface reconstruction, embeddings of finite metric spaces, polygonal linkages, the discrepancy method, and geometric graph theory
- Thorough revisions of all remaining chapters
- Extended coverage of computational geometry software, now comprising two chapters: one on the LEDA and CGAL libraries, the other on additional software
- Two indices: An Index of Defined Terms and an Index of Cited Authors
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