

Contents

Chapter 1

ROM

ROM(reduced order model) is used to describe huge complex problems in a concise and efficient manner.

1.1 POD

1.2 PCA

1.3 Galerkin-Projection

Bibliography

- [1] Ruppert J. A Delaunay refinement algorithm for quality 2-dimensional mesh generation[J].
- [2] Cheng S W, Dey T K, Shewchuk J, et al. Delaunay mesh generation[M].
- [3] L. Paul Chew. Guaranteed-Quality Mesh Generation for Curved Surfaces.
- [4] Üngör A. Off-centers: A new type of Steiner points for computing size-optimal quality-guaranteed Delaunay triangulations[C]//Latin American Symposium on Theoretical Informatics. Berlin, Heidelberg: Springer Berlin Heidelberg, 2004: 152-161.
- [5] Kremer M, Bommes D, Kobbelt L. OpenVolumeMesh—A versatile index-based data structure for 3D polytopal complexes[C]//Proceedings of the 21st International Meshing Roundtable. Springer Berlin Heidelberg, 2013: 531-548.
- [6] De Berg M. Computational geometry: algorithms and applications[M]. Springer Science & Business Media, 2000.
- [7] Mehlhorn K, Näher S. LEDA: A platform for combinatorial and geometric computing[M]. Cambridge university press, 1999.
- [8] Domiter V, Žalik B. Sweep-line algorithm for constrained Delaunay triangulation[J]. International Journal of Geographical Information Science, 2008, 22(4): 449-462.

