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""The discharging method in combinatorial geometry and the Pach-Sharir conjecture"""; "Pseudo-triangulations-a survey"; "1. Introduction"; "2. Basic Properties of Pseudo-Triangulations"; "3. The Set of all Pseudo-Triangulations"; "4. 3D Liftings and Locally Convex Functions"; "5. Self-Stresses, Reciprocal Diagrams, and the Maxwell-Cremona Correspondence"; "6. Pseudo-Triangulations and Rigidity"; "7. Planar Rigid Graphs are Pseudo-Triangulations"; "8. Polytopes of Pseudo-Triangulations"; "9. Applications of Pseudo-Triangulations"; "References""

""Line problems in nonlinear computational geometry"""; "On empty hexagons"; "k-sets and k-facets"; "1. Introduction"; "2. Preliminaries"; "3. Random Sampling"; "4. Special Point Sets"; "5. Lower Bounds"; "6. Upper Bounds for Halving Facets in All Dimensions"; "7. Crossings in Dimension 2"; "8. Improvements in Three And Four Dimensions"; "9. Convex Quadrilaterals"; "10. Connections to the Combinatorial Theory of Convex Polytopes"; "References"; "An Erdős-Szekeres type problem for interior points"; "The kissing number, blocking number and covering number of a convex body"; "Open problems"
