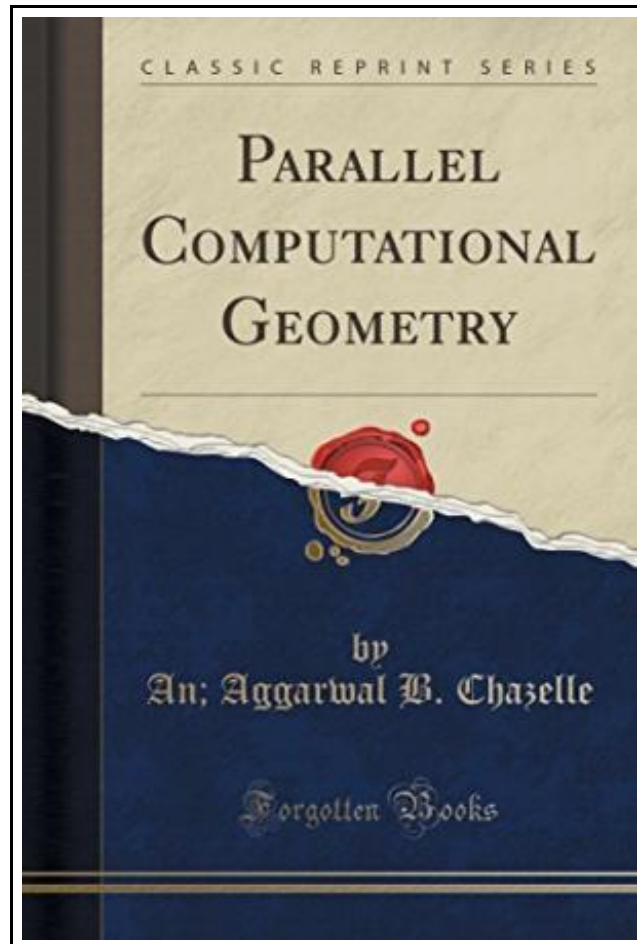


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Parallel Computational Geometry Computational geometry addresses algorithmic problems in diverse areas such as VLSI design, robotics, and computer graphics. Since 1975 there has been a wide development of sequential algorithms for geometric problems, but until 1985 there was little published about developing parallel algorithms for such problems. A notable exception was the Ph.D. research of Anita Chow (1980) which seems to have been the pioneering work in the field but unfortunately only a portion of it has appeared in the open literature. This paper contributes some parallel algorithms for solving geometric problems: (1) Convex hulls in two and three dimensions (2) Voronoi diagrams and proximity problems (3) Detecting segment intersections and triangulating a polygon (4) Polygon optimization problems (5) Creating data structures in two and three dimensions to answer some standard queries. It is seldom obvious how to generate parallel algorithms in this area since popular techniques such as contour tracing, plane sweeping, or gift wrapping involve an explicitly sequential (iterative) approach (see [Preparata and Shamos (1985)] for more details). In this paper we exploit data-structures that are simple enough to compute efficiently in parallel while being powerful enough to answer queries efficiently. However, the queries may be answered slightly less efficiently than would be possible if the data-structures were constructed sequentially. Efficient here means polylogarithmic in parallel time. All the algorithms presented here will be NC-algorithms, i.e., algorithms executable in polylog depth on polynomial-size circuits. We caution that the circuits here are slightly different from those used in machine-based complexity theory in that each node of our circuit can compute an infinite precision arithmetic operation. Furthermore these algorithms shall all be described as if...

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