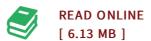




## Robotics Research Technical Report (Classic Reprint)

By Micha Sharir

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Excerpt from Robotics Research Technical Report We consider the problem of computing the shortest path between two points in two or three-dimensional space bounded by polyhedral surfaces. In the 2-D case the problem is easily solved in time O(n log n).In the general 3-D case the problem is quite hard to solve, and is not even discrete; we present a doubly exponential procedure for solving the discrete subproblem of determining the sequence of boundary edges through which the shortest path passes. Finally we consider a favorable special case of the 3-D shortest path problem, namely that of finding the shortest path between two points along the surface of a convex polyhedron, and solve it in time O(n log n). The problem of finding the shortest path between two points in Euclidean space bounded by a finite collection of polyhedral obstacles is a special case of the more general problem of planning optimal collision-free paths for a given robot system (here we treat the robot as a single moving point). In two dimensional space the problem is easy...



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