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The research on drilling oil wells model in the sense of a triangle distance based on the old wells data

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Abstract:
In this paper, the problem of drilling new wells based on old wells data to save cost is discussed. The intuitive working method and gradually traversal search method are used in the first problem to determine the position of new wells. In the second problem, through grid translation and rotation, a double cycle program and the algorithm of choosing new oil wells are designed naturally. In the third problem, we choose the square distance since the neighborhood of node is larger. Furthermore, we define a new type of triangle distance to optimize the model.

Published in: Electric Information and Control Engineering (ICEICE), 2011 International Conference on

Date of Conference: 15-17 April 2011

INSPEC Accession Number: 12072191

Date Added to IEEE Xplore: 27 May 2011

DOI: 10.1109/ICEICE.2011.5777311

ISBN Information:

Publisher: IEEE

Conference Location: Wuhan, China

 Contents

Download PDF	I. Introduction Currently, 40 percent of the world economic energy and 90 percent of transportation energy come from fossil oil. As the blood of industry, oil takes great part in modern life and energy becomes an important factor for restricting economic development [1]. In recent years, with the rising of oil price, it is profitable to utilize the old oil wells [2][3][4][5][6], then how to determine the position of new wells by means of mathematical method and computer algorithm [7][8][9] becomes an important problem. Suppose the cost of drilling a new oil well is 5 million Yuan and the cost of transforming an old oil well to a new one is 100 thousands Yuan. We arrange oil wells by vertical and horizontal grids whose length unit is 100 meters. Suppose there are n old oil wells. In order to make the cost less, the distance between well point and grid point should not exceed a given error. Now we consider the following problems. Read document	
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