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# The Model for Two-dimensional Layout Optimization Problem with Performance Constraints and Its Optimality Function

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摘要 This paper studies the two-dimensional layout

optimization problem. An optimization model with performance

constraints is presented. The layout problem is partitioned into

finite subproblems in terms of graph theory, in such a way of

that each subproblem overcomes its on-off nature optimal

variable. A minimax problem is constructed that is locally

equivalent to each subproblem. By using this minimax problem, we

present the optimality function for every subproblem and prove

that the first order necessary optimality condition is satisfied

at a point if and only if this point is a zero of optimality

function.

关键词 [Two-dimensional layout problem, semi-infinite optimization, optimality function](#)

分类号

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### Abstract

### Key words

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