

SEQUENTIAL DUALITY METHOD FOR SOLVING
POSYNOMIAL GOAL PROGRAMMING PROBLEMS

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ABSTRACT

In this paper, sequential duality method is presented to solve posynomial goal programming problems. This method depends on combining the Duality method of solving single objective posynomial problems and the sequential goal method. A global solution is obtained when the degree of difficulty equals zero and a computer program is designed to obtain the solution in this case. Finally, a numerical example to illustrate the method and its properties is introduced.

Key words: Goal programming , geometric programming, tight and loose constraints, sequential method, duality method, posynomial program.