A Quasi-Filled Function Method For Nonlinear Integer Programming *

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Abstract. This paper gives a new definition of the quasi-filled function for nonlinear integer programming problem, and a quasi-filled function method for nonlinear integer programming problem, which is modified from the filled function method for continuous global optimization (see paper [2]), is presented. Furthermore, we will discuss the properties of the proposed quasi-filled function. Numerical results indicate the efficiency and reliability of the proposed quasi-filled function method.

Keywords. integer programming, local minimizer, global minimizer, filled function, quasi-filled function, global optimization

References


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