ON THE BOUNDED OF VERTICES FOR THE REFLEXIVE POLYTOPE

SHATHA ASSAAD SALMAN & NOOR RASHIED SHIBEEB

Department of Applied Science, Applied Mathematics, University of Technology, Iraq

ABSTRACT

In this work the basic concept of the reflexive polytope with Earhart series for it are given. Two known inequalities on h-vector for the reflexive poytope are presented. By using them we give a complete classification of possible h-vector of integral reflexive polytope with $\sum_{i=0}^{d} h_i \leq 3,$ the bounded of the number of vertices for the reflexive polytope are also proven.

KEYWORDS: On the Bounded of Vertices for the Reflexive Polytope