

Maximum inequalities and their applications to Orthogonal and Hadamard matrices

G. GIORGOBIANI*. V. KVARATSKHELIA**

Affiliation: **Georgian Technical University, Muskhelishvili Institute of Computational
Mathematics, Tbilisi, Georgia;*

***Georgian Technical University, Muskhelishvili Institute of Computational Mathematics,
Tbilisi, Georgia*

E-mail: *giorgobiani.g@gtu.ge; **v.kvaratskhelia@gtu.ge

Using Hoeffding-Chernoff bound maximum inequalities for the signed vector sums and corresponding probabilistic estimations are established. By use of transference technique appropriate maximum inequalities are derived for the permutations. One application for Orthogonal and Hadamard matrices is suggested.