عنوان مقاله:

Generalized conjugate gradient method for solving multilinearsystems

محل انتشار:

یازدهمین سمیناًر جبر خطی و کاربردهای آن (سال: 1400)

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خلاصه مقاله:

Let L be a real linear operator with a positive de nite symmetric part M. In certainapplications, several problems of the form $M \star N Y = can be solved with less human or computational effort than the original equation <math>L \star N = F$. In this paper, the generalizedconjugate gradient method of Concus and Golub [Lecture Notes in Economics and Math-ematical Systems IMF, Springer-Verlag, New York, 1979] and Widlund [SIAM J. Numer.Anal., 16 (1974), pp. ٨٠١-٨١٢] is extended for solving some tensor equations via Einsteinproduct. An example is also provided to show the efficiency of the .proposed method. Finally, some concluding remarks are given

کلمات کلیدی: Generalized conjugate gradient method, Tensor, Multilinear systems

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