

**ZMATH 2010e.00520**

**Ahmed, Mohammad Maruf**

**Unified approach of the generalized inverse with its computational derivations.**

Far East J. Math. Educ. 2, No. 1, 49-63 (2008).

Summary: This paper deals with computational derivations of generalized inverses (g-inverses). A special algorithm gives the procedure of finding g-inverses which is verified numerically. An example has been set to draw a relation between different classes of generalized inverses. Here g-inverses are computed using different methods such as block design, rank factorization, and diagonal reduction.

*Classification:* H65 N35

*Keywords:* singular; conjugate transpose; factorization; diagonal reduction; Hermite canonical form

<http://pphmj.com/abstract/3339.htm>