

**Luo, Jenn-Ching**

**A new class of decomposition for inverting asymmetric and indefinite matrices.** (English)

Zbl 0776.65021

Comput. Math. Appl. 25, No. 4, 95-104 (1993).

A decomposition for inverting a nonsingular matrix is presented. The non-singularity of the matrix will be used explicitly. The technique can easily be transformed into parallel procedures. Some computer results with a system of order (256,256) are reported.

Reviewer: [H.Hollatz \(Magdeburg\)](#)

**MSC:**

[65F05](#) Direct numerical methods for linear systems and matrix inversion

Cited in **1** Review  
Cited in **8** Documents

**Keywords:**

[decomposition method](#); [matrix inversion](#); [parallel computation](#); [numerical examples](#)

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**References:**

- [1] Luo, J.-C., A new class of decomposition for symmetric systems, *Mechanics Research Communications*, 19, 3 (1992)
- [2] Luo, J.-C., A note on parallel processing, *Applied Mathematics Letters*, 5, 2, 75-78 (1992) · [Zbl 0743.65023](#)

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