Electronic Transactions on Numerical Analysis.
Volume 4, pp. 125-137, September 1996.

ISSN 1068-9613.

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ON THE SOLUTION OF CAUCHY SYSTEMS OF EQUATIONS *

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Dedicated to Gerhard Opfer on the occasion of his 60th birthday.

Abstract. The development of fast solution methods for linear systems of equations with a Cauchy matrix has recently received considerable attention. This note presents new solution methods based on a modification of an inversion formula described by Gastinel [8].

Key words. fast algorithm, linear system, Cauchy matrix, Hankel matrix, Toeplitz matrix.

AMS subject classification. 65F10.

*Received February 27, 1996. Accepted for publications August 8, 1996. Communicated by A. Ruttan.

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