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4. Abstract should not exceed 100 words. Please state the problems to be addressed, their relevance, the methodology and results. References, if necessary, should be in the body of the abstract. Formulas should be kept to a minimum—please, no vertical fractions, multiple subscripts, or handwritten symbols. Abstracts must be submitted on this form and will be printed as received. Errors in the text are the author's responsibility.
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ABSTRACT FORM

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Inversion of Lossy Transmission Media by Discrete Methods

The present work deals with some problems arising when estimating the parameters of a system by the inversion of its propagation equations when losses can not be neglected. This is the case of the vocal tract, the auditory system and many others, for which a lack of efficient computational methods can be detected to estimate the effect of losses [1]. The herein proposed method is based in the Calculus of Variations on the modified discrete counterparts of the propagation equations in terms of separate travelling waves, thus reducing the problem to the solution of a Toeplitz system, for which the lossless problem may be seen as a particular case. The method have been implemented and checked by computer, and several results may be shown.

[1] "A Digital Lattice for Cochlear Parameter Identification", P. Gómez et al., Proc. of the MECOMBE'86, Sevilla, Spain, September 9-12 1986, pp. 637-640.

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