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WAVELETS SERIES ANALYSIS METHOD FOR STATIC UNDETERMINED SYSTEMS

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This paper presents the outcomes of using a new method for numeric calculus - wavelets functions development series for mathematical models of static stressed elements. Examples by case studies are presented in order to determine the deformations got by serial developments with Haar functions.

A brief theoretical presentation of Haar type wavelet functions is inserted at the beginning. For deformations calculation Matlab tools and personal programs for differential linear and nonlinear equations solving are used.