

**ON AN INVESTIGATION OF THE MATRIX OF THE SECOND PARTIAL  
DERIVATIVE IN ONE ECONOMIC DYNAMICS MODEL**

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**ABSTRACT**

The article deals with the model of economic dynamics of the Leontief type with  $n$  sector. We study the change rate of the sectors states depending on changes in the price vector. This equilibrium vector of the model is a solution of some functional equation. We study the properties of the matrix of the second partial derivatives of the left hand side of this equation. An estimate is derived for the norm of the growth rate of the industries in particular. For this purpose the properties of Metzler matrix is used.

**Keywords:** Economic dynamics, equilibrium state, matrix.

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