

**Hudz T.P.**

**Forecasting of complex corporate finance indicator**

This article proposes a comprehensive indicator of assessing the state of corporate finance, which is the index of stability of the financial equilibrium of enterprises. An economic-mathematical model created on the basis of mathematical gnostic analysis for predicting the stability index of financial equilibrium on the example of engineering enterprises. The forecast made on the state of balance of corporate finance in the field of engineering, taking into account the influence of external factors. financial equilibrium showed a high level of sensitivity of corporate finance in engineering to the negative impact of macroeconomic instability. The high volatility of the stability index of the financial equilibrium of machine-building enterprises is complemented by a downtrend forecast for the near future. The deterioration of the financial condition of enterprises under the influence of external factors indicates a low level of financial stability and the depletion of their financial potential by a constant struggle for survival. A generalization of the results of forecasting the financial equilibrium of engineering enterprises made it possible to single out the advantages of the proposed economic and mathematical models, namely: a qualitative methodological basis for their development; the complex nature of the resulting features; relatively high objectivity and adequacy of the forecast; ease of use; adaptability to Ukrainian economic realities; the ability to timely identify the causes of the deterioration of corporate finance, which ensures the accessibility of the management system to an urgent solution of financial problems in the activities of enterprises.