GENERAL ANALYSIS AND PROBLEMS OF MATHEMATICAL MODELING THEORY

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ABSTRACT

This article provides a theoretical analysis of the history of modeling, model concept, model classes, design, mathematical model and its structure. In addition, theoretical and practical methods and recommendations for modeling, identification process, identification of stochastic objects, planning of experiments and construction of a system of mathematical models for analysis and forecasting are presented.

Keywords. Model, modeling, mathematical model, mathematical modeling, design, model classes, identification, stochastic objects, forecasting, etc.