

ON SAME CURRENT PROBLEMS OF APPLIED MATHEMATICS

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The viewpoint of the author on selected problems in applied mathematics is presented. We consider, in particular, the following problems:

- on the concept of mathematical model and its choosing,
- on the chaos-order problem in connection of two main current discoveries in nonlinear dynamics,
- on the deterministic and stochastic models,
- on the small parameter methods and on the illusion of its practical use,
- on some consequences of emergence of high-powered computers,
- on the mathematical education of engineer.