

performance dynamics of technical systems with non-linear characteristics, aiming at a more thorough research of performance during transient phenomena occurring when working conditions and exploitation loads are changed.

This paper deals with the ship steam boiler, i.e. we have made qualitative and quantitative simulation models based on the mathematical model which is partly taken from [2] (pages 26-31). Eventually the model has been shown with a set of differential equations, which indeed makes it one of exceptionally complex technical systems with dominating set of relevant causal connections and feedback loops that we have defined. The simulation has been carried out with regard to the performance dynamics of the observed systems.

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