

Mathematical Simulation of Production Systems

MODELING COMPLEX SYSTEMS TO PREDICT BEHAVIOR AND OPTIMIZE DECISION-MAKING



KEY WORDS

MATHEMATICAL
SIMULATION,
COMPLEX SYSTEMS,
SUSTAINABILITY

DESCRIPTION

The PDSPS has mathematical simulation capabilities focused on the analysis and modeling of complex production systems. Through mathematical and computational models, process behavior, flows and resources are studied, enabling scenario evaluation, bottleneck identification and decision optimization under sustainability constraints

APPLICATIONS

- Simulation of production processes;
- Evaluation of operating scenarios;
- Optimization of industrial systems;
- Support for strategic decisions

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