

Optimization and Simulation of Production Systems

MATHEMATICAL MODELING FOR EFFICIENT AND SUSTAINABLE PRODUCTION DECISIONS



KEY WORDS

OPTIMIZATION,
SIMULATION,
PRODUCTION
SYSTEMS

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DESCRIPTION

A service that applies optimization and mathematical simulation tools to analyze, design, and improve production systems for goods and services, integrating technical, economic, and environmental constraints.

AVAILABLE TECHNIQUES AND/OR EQUIPMENT

- Mathematical optimization models
- Computer simulation
- Scenario analysis

APPLICATIONS

- Design of production systems
- Evaluation of operational scenarios
- Resource optimization