

PRODUCTION SYSTEMS ANALYSIS AND OPTIMIZATION USING FACTS ANALYZER

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ABSTRACT

Factory Conceptual design Tools using Simulation (FACTS) Analyzer is a discrete-event simulation software developed in Sweden with the objective to promote manufacturing decision makers to play the role of simulation analysts, particularly in the conceptual design phase. It features integrated support of simulation-based optimization, specifically using multi-objective optimization algorithms, to facilitate managers/engineers to run optimizations to seek the optimal combinations of design variables to support confident decision making for the design and improvement of production systems. It is also designed with the principle of rapid modeling to aid the users to build models without the need of any programming skills. The concept of rapid modeling and integrated optimization support have facilitated FACTS Analyzer to be a unique and effective tool for production systems analysis and improvement. In this presentation, we will go through six features which make FACTS Analyzer special when compared to other simulation software available in the market.