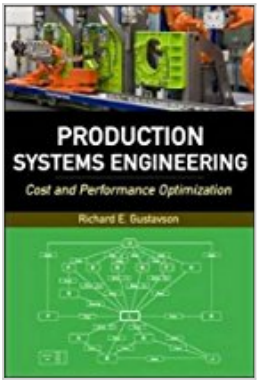

Production Systems Engineering: Cost and Performance Optimization (Mechanical Engineering)

By Richard Gustavson

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Optimize Economic and Technological Requirements in Production System Designs

This pioneering work offers proven techniques, partially created and developed at The Charles Stark Draper Laboratory, for determining optimal resource allocation and cost-effective production system designs for today's any-volume manufacturing environments. *Production Systems Engineering* presents a unique methodology that synthesizes applicable technology with economic requirements for an integrated solution. Featuring real-world case studies, this authoritative resource establishes a new paradigm for the manufacturing world that can also be applied to other enterprise environments.

Coverage includes:

- Determining an improved manufacturing system design method
- System design basics, time allocation, resources, costs, and quality rating
- Stochastic analyses added to deterministic results
- System configuration options
- Multiple disparate products produced by one system
- World class versus mostly manual systems
- Determining allowable investment
- Simultaneous improvement in yield and cycle-time

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About the Author

Richard E. Gustavson is president of Systems Synthesis, Inc., developer of software packages for determining assembly sequences, developing assembly process plans, establishing task/resource matrices, and synthesizing cost-effective manufacturing systems.

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