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This text presents the
practical application of
queueing theory results
for the design and
analysis of
manufacturing and
production systems.

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This textbook makes accessible to undergraduates and beginning graduates many of the seemingly esoteric results of queueing theory. In an effort to apply queueing theory to practical problems, there has been considerable research over the previous few decades in developing reasonable

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approximations of
queueing results. This
text takes full advantage
of these results and
indicates how to apply
queueing
approximations for the
analysis of
manufacturing systems.
Support is provided
through the web site
<http://msma.tamu.edu>.
Students will have
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Odd numbered problems and instructors will be provided with a full solutions manual, Excel files when needed for homework, and computer programs using Mathematica that can be used to solve homework and develop additional problems or term projects. In this second edition a separate appendix

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dealing with some of the basic event-driven simulation concepts has been added.

This four-volume set (CCIS 643, 644, 645, 646) constitutes the refereed proceedings of the 16th Asia Simulation Conference and the First Autumn Simulation Multi-Conference, AsiaSim /

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Systems AutumnSim 2016, held in Beijing, China, in October 2016. The 265 revised full papers presented were carefully reviewed and selected from 651 submissions. The papers in this second volume of the set are organized in topical sections on HMI and robot simulations; modeling and simulation for

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intelligent
manufacturing; military
simulation; visualization
and virtual reality.

This book presents the
proceedings of the 3rd
International
Conference on the
Industry 4.0 Model for
Advanced
Manufacturing (AMP
2018), held in Belgrade,
Serbia, on 5–7 June

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2018, the latest in a series of high-level conferences that brings together experts from academia and industry to exchange knowledge, ideas, experiences, research findings, and information in the field of manufacturing. The book addresses a wide range of topics, including, for example, design of smart and

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intelligent products,
developments in
CAD/CAM
technologies, rapid
prototyping and reverse
engineering, multistage
manufacturing
processes,
manufacturing
automation in the
Industry 4.0 model,
cloud-based products,
and cyber-physical and
reconfigurable

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By providing updates on key issues and recent advances in manufacturing engineering and technologies, it aids the transfer of vital knowledge to the next generation of academics and practitioners. It appeals to anyone working or conducting research in this rapidly

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Manufacturing Systems
is a fresh look at
manufacturing from a
systems point of view.
This collection of papers
from a symposium
sponsored by the
National Academy of
Engineering explores
the need for new

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technologies, the more effective use of new tools of analysis, and the improved integration of all elements of manufacturing operations, including machines, information, and humans. It is one of the few volumes to include detailed proposals for research that match the needs of industry.

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The two volumes IFIP
AICT 459 and 460
constitute the refereed
proceedings of the
International IFIP WG
5.7 Conference on
Advances in Production
Management Systems,
APMS 2015, held in
Tokyo, Japan, in
September 2015. The
163 revised full papers
were carefully reviewed

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and selected from 185 submissions. They are organized in the following topical sections: collaborative networks; globalization and production management; knowledge based production management; project management, engineering management, and

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Systems management;
sustainability and
production
management; co-
creating sustainable
business processes and
ecosystems; open cloud
computing architecture
for smart manufacturing
and cyber physical
production systems; the
practitioner's view on
"innovative production
management towards

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sustainable growth"; the role of additive manufacturing in value chain reconfiguration and sustainability; operations management in engineer-to-order manufacturing; lean production; sustainable system design for green products; cloud-based manufacturing; ontology-aided production - towards open and

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knowledge-driven
planning and control;
product-service lifecycle
management:

knowledge-driven
innovation and social
implications; and
service engineering.

In production systems
there are often capacity
oriented performance

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Systems, like a desired total throughput, a desired average throughput time and average work in-process. Such performance objectives are expressed in "units of products" rather than in specific product types. This book presents a way of modeling and analyzing production systems so,

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that such capacity oriented performance criteria can be measured in a simple way. The model consists of three basic elements. 1. The product types in the system are aggregated. 2. The product flow is modeled as being continuous. 3. The machines in the model have a finite number of states. Each state has a

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phase-type sojourn distribution and an associated production speed. Transitions between the states are determined by an irreducible Markov transition matrix. In the book both the mathematical properties and the practical applicabilities of the model are investigated. The model is

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extensively analyzed for various layouts, like flow lines, assembly disassembly systems and networks where parallel machines share common buffers.

Furthermore various ways of controlling the product flow in the model are investigated, such as Base Stock Control, Workload Control, control by

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finite buffers and control by the Reorder Point System. An approximation technique is developed for a quick estimation of performance measures like throughput and average work-in-process, for networks with layouts and control techniques like those above-mentioned.

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Peter Pirolli covers information foraging theory (IFT), a theory in adaptive information interaction. IFT analyses what people do to make sense of the huge amount of information available on the Internet and how they navigate it.

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This book constitutes the refereed post-conference proceedings of the 14th IFIP WG 5.1 International Conference on Product Lifecycle Management, PLM 2017, held in Seville, Spain, in July 2017. The 64 revised full papers presented were carefully reviewed and selected from 78 submissions. The papers

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are organized in the following topical sections: PLM maturity, implementation and adoption; PLM for digital factories; PLM and process simulation; PLM, CAX and knowledge management; PLM and education; BIM; cyber-physical systems; modular design and products; new product

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development;
ontologies, knowledge
and data models; and
Product, Service,
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