

G. L. Curry · R. M. Feldman

Manufacturing Systems Modeling and Analysis

Second Edition

This text presents the practical application of queueing theory results for the design and analysis of manufacturing and production systems. 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 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://www.tamu.edu>. Students will have access to the answers of 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 in some projects. In this second edition a separate appendix dealing with some of the basic event-driven simulation concepts has been added.



Guy L. Curry is a Professor of Industrial and Systems Engineering at Texas A&M University. He received B.S. and M.S. degrees in mathematics from the University of Oklahoma and Wichita State University, respectively, and a Ph.D. in industrial engineering from the University of Arkansas. Prior to joining Texas A&M University, he was an operations research analyst with Boeing and Sea-Cell. He has received several research and teaching awards and co-authored three books. Dr. Curry teaches courses in simulation, optimization, and production/manufacturing systems. His current research interests include modeling and analysis techniques for production and manufacturing systems.



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Engineering



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Curry · Feldman



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and Analysis

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