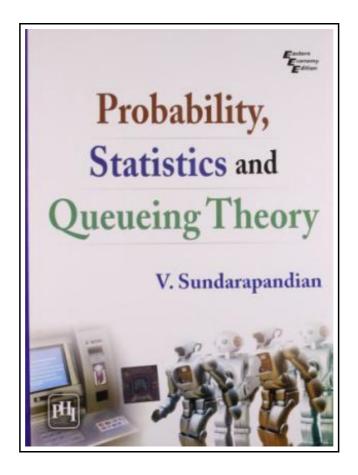
# Probability, Statistics and Queueing Theory



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## PROBABILITY, STATISTICS AND QUEUEING THEORY



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PHI Learning, 2009. Softcover. Book Condition: New. First edition. Probability, Statistics and Queuing Theory is considered to be a ?tough? subject by most engineering and science students all over the world. What Professor Sundarapandian with his indepth knowledge and rich and long experience strives to do is to make the concepts very clear and comprehensible to the students by his lucid presentation and illustrative approach. The book analyses various types of random processes, spectral density functions and their applications to linear systems. Besides, it deals with the basics of queuing theory with a clear exposition of the five important queuing models. The text gives a detailed description of such topics as random variables, standard probability distribution, central limit theorem, random processes and spectral theory. The text is profusely illustrated with examples and diagrams so as to make this rigorous subject more understandable to the students. KEY FEATURES: The text is comprehensive and the presentation practical. Over 625 worked-out Examples, and over 440 Problem Sets. Answers to all section-end problems. Intended primarily as a text for undergraduate students of Engineering for their courses on Probability, Statistics, Random Processes and Queuing Theory, the book will also be extremely useful for undergraduate and postgraduate students of Science and postgraduate students of Engineering pursuing these courses. CONTENTS: Preface 1 PROBABILITY 1.1 Brief History of Probability 1.2 Sample Space and Events 1.3 Classical and Empirical Probability 1.4 Axiomatic Definition of Probability 1.5 Conditional Probability 1.6 Total Probability 1.7 Bayes? Theorem 2 RANDOM VARIABLE 2.1 Definition of a Random Variable 2.2 Distribution Function of a Random Variable 2.3 Discrete Random Variable 2.4 Continuous Random Variable 2.5 Mathematical Expectation 2.6 Chebyshev?s Inequality 2.7 Moments of a Random Variable 2.8 Moment Generating Function 2.9 Characteristic Function 3 STANDARD PROBABILITY DISTRIBUTIONS 3.1 Degenerate Distribution 3.2 Bernoulli Distribution 3.3...



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