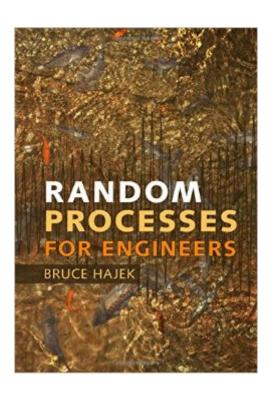
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Random Processes For Engineers





Synopsis

This engaging introduction to random processes provides students with the critical tools needed to design and evaluate engineering systems that must operate reliably in uncertain environments. A brief review of probability theory and real analysis of deterministic functions sets the stage for understanding random processes, whilst the underlying measure theoretic notions are explained in an intuitive, straightforward style. Students will learn to manage the complexity of randomness through the use of simple classes of random processes, statistical means and correlations, asymptotic analysis, sampling, and effective algorithms. Key topics covered include: $\hat{a} \notin Calculus$ of random processes in linear systems $\hat{a} \notin Kalman$ and Wiener filtering $\hat{a} \notin Hidden$ Markov models for statistical inference $\hat{a} \notin The$ estimation maximization (EM) algorithm $\hat{a} \notin An$ introduction to martingales and concentration inequalities. Understanding of the key concepts is reinforced through over 100 worked examples and 300 thoroughly tested homework problems (half of which are solved in detail at the end of the book).

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