

1. Record Nr.	UNINA9910458157803321
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Titolo	Probability and random processes [[electronic resource]] : with applications to signal processing and communications / / Scott L. Miller, Donald Childers
Pubbl/distr/stampa	Waltham, Mass., : Elsevier, 2012
ISBN	1-283-41027-3 9786613410276 0-12-387013-5
Edizione	[Ed. 2.]
Descrizione fisica	1 online resource (625 p.)
Altri autori (Persone)	ChildersDonald G
Disciplina	621.382/20151
Soggetti	Signal processing - Mathematics Probabilities Stochastic processes Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Cover; Probability and Random Processes: With Applications to Signal Processingand Communications; Copyright; Contents; Preface; Chapter 1: Introduction; 1.1 A Speech Recognition System; 1.2 A Radar System; 1.3 A Communication Network; Chapter 2: Introduction to Probability Theory; 2.1 Experiments, Sample Spaces, and Events; 2.2 Axioms of Probability; 2.3 Assigning Probabilities; 2.4 Joint and Conditional Probabilities; 2.5 Basic Combinatorics; 2.6 Bayes's Theorem; 2.7 Independence; 2.8 Discrete Random Variables; 2.9 Engineering Application-An Optical Communication System; Exercises Section 2.1: Experiments, Sample Spaces, and EventsSection 2.2: Axioms of Probability; Section 2.3: Assigning Probabilities; Section 2.4: Joint and Conditional Probabilities; Section 2.5: Basic Combinatorics; Section 2.6: Bayes's Theorem; Section 2.7: Independence; Section 2.8: Discrete Random Variables; Miscellaneous Problems; MATLAB Exercises; Chapter 3: Random Variables, Distributions,and Density Functions; 3.1 The Cumulative Distribution Function; 3.2 The Probability Density Function; 3.3 The Gaussian Random Variable; 3.4 Other Important

Random Variables; 3.4.1 Uniform Random Variable
 3.4.2 Exponential Random Variable 3.4.3 Laplace Random Variable;
 3.4.4 Gamma Random Variable; 3.4.5 Erlang Random Variable; 3.4.6
 Chi-Squared Random Variable; 3.4.7 Rayleigh Random Variable; 3.4.8
 Rician Random Variable; 3.4.9 Cauchy Random Variable; 3.5
 Conditional Distribution and Density Functions; 3.6 Engineering
 Application: Reliability and Failure Rates; Exercises; Section 3.1: The
 Cumulative Distribution Function; Section 3.2: The Probability Density
 Function; Section 3.3: The Gaussian Random Variable; Section 3.4:
 Other Important Random Variables
 Section 3.5: Conditional Distribution and Density Functions Section 3.6:
 Reliability and Failure Rates; Miscellaneous Exercises; MATLAB
 Exercises; Chapter 4: Operations on a Single Random Variable; 4.1
 Expected Value of a Random Variable; 4.2 Expected Values of Functions
 of Random Variables; 4.3 Moments; 4.4 Central Moments; 4.5
 Conditional Expected Values; 4.6 Transformations of Random
 Variables; 4.6.1 Monotonically Increasing Functions; 4.6.2
 Monotonically Decreasing Functions; 4.6.3 Nonmonotonic Functions;
 4.7. Characteristic Functions; 4.8. Probability-Generating Functions
 4.9 Moment-Generating Functions 4.10 Evaluating Tail Probabilities;
 4.11 Engineering Application-Scalar Quantization; 4.12 Engineering
 Application-Entropy and Source Coding; Exercises; Section 4.1:
 Expected Values of a Random Variable; Section 4.2: Expected Values of
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 Central Moments; Section 4.5: Conditional Expected Values; Section
 4.6: Transformations of Random Variables; Section 4.7: Characteristic
 Functions; Section 4.8: Probability-Generating Functions; Section 4.9:
 Moment-Generating Functions
 Section 4.10: Evaluating Tail Probabilities

Sommario/riassunto

Miller and Childers have focused on creating a clear presentation of
 foundational concepts with specific applications to signal processing
 and communications, clearly the two areas of most interest to students
 and instructors in this course. It is aimed at graduate students as well
 as practicing engineers, and includes unique chapters on narrowband
 random processes and simulation techniques. The appendices provide
 a refresher in such areas as linear algebra, set theory, random
 variables, and more. Probability and Random Processes also includes
 applications in digital communicat

2. Record Nr.	UNINA9910688596603321
Titolo	Biotechnology and Bioengineering // edited by Eduardo Jacob -Lopes, Leila Queiroz Zepka
Pubbl/distr/stampa	London, England : , : IntechOpen, , 2019
Descrizione fisica	1 online resource (188 pages)
Disciplina	660.6
Soggetti	Biotechnology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Biotechnology and Bioengineering presents the most up-to-date research on biobased technologies. It is designed to help scientists and researchers deepen their knowledge in this critical knowledge field. This solid resource brings together multidisciplinary research, development, and innovation for a wide study of Biotechnology and Bioengineering.