1.	Record Nr.	UNINA9910488709003321
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	Titolo	Probability in Electrical Engineering and Computer Science : An Application-Driven Course
	Pubbl/distr/stampa	Cham, : Springer International Publishing AG, 2021
	ISBN	3-030-49995-2
	Descrizione fisica	1 online resource (390 p.)
	Soggetti	Maths for computer scientists Communications engineering / telecommunications Maths for engineers Probability & statistics
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Description based upon print version of record.
	Sommario/riassunto	This revised textbook motivates and illustrates the techniques of applied probability by applications in electrical engineering and computer science (EECS). The author presents information processing and communication systems that use algorithms based on probabilistic models and techniques, including web searches, digital links, speech recognition, GPS, route planning, recommendation systems, classification, and estimation. He then explains how these applications work and, along the way, provides the readers with the understanding of the key concepts and methods of applied probability. Python labs enable the readers to experiment and consolidate their understanding. The book includes homework, solutions, and Jupyter notebooks. This edition includes new topics such as Boosting, Multi-armed bandits, statistical tests, social networks, queuing networks, and neural networks. For ancillaries related to this book, including examples of Python demos and also Python labs used in Berkeley, please email Mary James at mary.james@springer.com. This is an open access book.