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High-dimensional probability offers insight into the behavior of random vectors, random matrices, random subspaces, and objects used to quantify uncertainty in high dimensions. Drawing on ideas from probability, analysis, and geometry, it lends itself to applications in mathematics, statistics, theoretical computer science, signal processing, optimization, and more. It is the first to integrate theory, key tools, and modern applications of high-dimensional probability. Concentration inequalities form the core, and it covers both classical results such as Hoeffding's and Chernoff's inequalities and modern developments such as the matrix Bernstein's inequality. It then introduces the powerful methods based on stochastic processes, including such tools as Slepian's, Sudakov's, and Dudley's inequalities, as well as generic chaining and bounds based on VC dimension. A broad range of illustrations is embedded throughout, including classical and modern results for covariance estimation, clustering, networks, semidefinite programming, coding, dimension reduction, matrix completion, machine learning, compressed sensing, and sparse regression.

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

Managing in the public sector requires an understanding of the interaction between three distinct dimensions—administrative structures, organizational cultures, and the skills of individual managers. Public managers must produce results that citizens and their representatives expect from their government while fulfilling their constitutional responsibilities. In Public Management: Thinking and Acting in Three Dimensions, authors Carolyn J. Hill and Laurence E. Lynn, Jr. argue that one-size-fits-all approaches are inadequate for dealing with the distinctive challenges that public managers face. Drawing on both theory and detailed case studies of actual practice, the authors show how public management that is based on applying a three-dimensional analytic framework—structure, culture, and craft—to specific management problems is the most effective way to improve the performance of America's unique scheme of governance in accordance with the rule of law. The book educates readers to be informed citizens and prepares students to participate as professionals in the world of public management.

The Evidence-Based Practice Manual was developed as an all-inclusive and comprehensive practical desktop resource. It includes 104 original chapters, each specially written by the most prominent and experienced medical, public health, psychology, social work, criminal justice, and public policy practitioners, researchers, and professors in the United States and Canada. This book is specifically designed with practitioners in mind, providing at-a-glance overviews and direct application chapters. This is the only interdisciplinary volume available for locating and applying evidence-based assessment measures, treatment plans, and interventions. Particular attention has been given to providing practice guidelines and exemplars of evidence-based practice and practice-based research. The Evidence-Based Practice Manual emphasizes and summarizes key elements, issues, concepts, and how-to approaches in the development and application of evidence-based practice. Discussions include program evaluation, quality and operational improvement strategies, research grant applications, validating measurement tools, and utilizing statistical procedures. Concise summaries of the substantive evidence gained from methodologically rigorous quantitative and qualitative research provide make this is an accessible resource for a broad range of practitioners facing the mandate of evidence-based practice in the health and human services.