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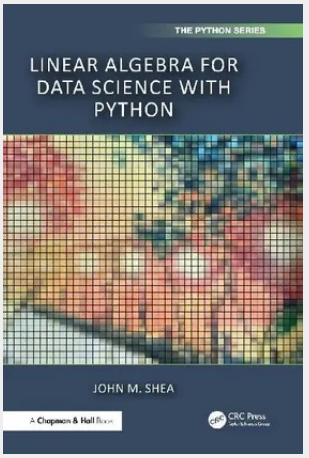
Linear Algebra for Data Science with Python

Linear Algebra for Data Science with Python provides an introduction to vectors and matrices within the context of data science. This book starts from the fundamentals of vectors and how vectors are used to model data, builds up to matrices and their operations, and then considers applications of matrices and vectors to data fitting, transforming time-series data into the frequency domain, and dimensionality reduction. This book uses a computational-first approach: the reader will learn how to use Python and the associated data-science libraries to work with and visualize vectors and matrices and their operations, as well as to import data to apply these techniques. Readers learn the basics of performing vector and matrix operations by hand but are also shown how to use several different Python libraries for performing these operations. Key Features: - Teaches the most important concepts and techniques for working with multi-dimensional data using vectors and matrices - Introduces readers to some of the most important Python libraries for working with data, including NumPy and PyTorch - Demonstrate the application of linear algebra in real data and engineering applications - Includes many color visualizations to illustrate mathematical operations involving vectors and matrices - Provides practice and feedback through a unique set of online, interactive tools on the accompanying website

Learn how to use Python and associated data-science libraries to work with and visualize vectors and matrices and their operations, as well import data to apply these techniques. Learn basics of performing vector and matrix operations by hand, how to use several different Python libraries for performing operations.



127,90 €
127,90 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9781032659169
Medium: Buch
ISBN: 978-1-032-65916-9
Verlag: Chapman and Hall/CRC
Erscheinungstermin: 31.10.2025
Sprache(n): Englisch
Auflage: 1. Auflage 2025
Serie: Chapman & Hall/CRC The Python Series
Produktform: Gebunden
Gewicht: 687 g
Seiten: 258
Format (B x H): 183 x 260 mm

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)