

1. Record Nr.	UNINA9910557736203321
Autore	Pirri Fabrizio
Titolo	2D Nanomaterials Processing and Integration in Miniaturized Devices
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2021
Descrizione fisica	1 online resource (122 p.)
Soggetti	Technology: general issues
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>2D nanomaterials are a relatively populous and ever-expanding class of innovative materials with disruptive potential for different application contexts. Although for some of them, such as graphene, various possible implementations have already been explored in different application fields, others, (e.g., Mxenes), are still relatively at an infantile stage with regard to handling, stability, exploitation, processing and practical use in devices and structures with higher dimensionality. In any case, regardless of the specific nature of each of these materials, their degree of purity and structure (mono-layers/few-layers/multi-layers) and their level of maturity, they all share the same challenges since their onset, such as processing, patterning, transfer and integration in devices, allowing smart exploitation of their unique properties, incorporation in matrices of different nature for the synthesis of nano-composites, and so on. Accordingly, this book aims to showcase research papers and review articles outlining recent progress and innovative approaches for 2D nanomaterials synthesis and/or processing, preparatory to their assembly or integration into devices, microstructures, microsensors and composites for different application fields.</p>

2. Record Nr.	UNINA9910360852903321
Autore	Härdle Wolfgang
Titolo	Applied Multivariate Statistical Analysis // by Wolfgang Karl Härdle, Léopold Simar
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	9783030260064 3030260062
Edizione	[5th ed. 2019.]
Descrizione fisica	1 online resource (xii, 558 pages) : 443 illustrations, 308 illustrations in color
Disciplina	519.535
Soggetti	Statistics Social sciences - Mathematics Econometrics Statistical Theory and Methods Statistics in Business, Management, Economics, Finance, Insurance Mathematics in Business, Economics and Finance Quantitative Economics Statistics in Engineering, Physics, Computer Science, Chemistry and Earth Sciences Anàlisi multivariable Estadística econòmica Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Part I Descriptive Techniques -- 1 Comparison of Batches -- Part II Multivariate Random Variables -- 2 A Short Excursion into Matrix Algebra -- 3 Moving to Higher Dimensions -- 4 Multivariate Distributions -- 5 Theory of the Multinormal -- 6 Theory of Estimation -- 7 Hypothesis Testing -- Part III Multivariate Techniques -- 8 Regression Models -- 9 Variable Selection.-10 Decomposition of Data Matrices by Factors -- 11 Principal Components Analysis -- 12 Factor Analysis -- 13 Cluster Analysis -- 14 Discriminant Analysis -- 15 Correspondence Analysis -- 16 Canonical Correlation Analysis -- 17

Multidimensional Scaling -- 18 Conjoint Measurement Analysis -- 19 Applications in Finance -- 20 Computationally Intensive Techniques -- Part IV Appendix -- A Symbols and Notations -- B Data -- Index -- References.

Sommario/riassunto

This textbook presents the tools and concepts used in multivariate data analysis in a style accessible for non-mathematicians and practitioners. All chapters include practical exercises that highlight applications in different multivariate data analysis fields, and all the examples involve high to ultra-high dimensions and represent a number of major fields in big data analysis. For this new edition, the book has been updated and extensively revised and now includes an extended chapter on cluster analysis. All solutions to the exercises are supplemented by R and MATLAB or SAS computer code and can be downloaded from the Quantlet platform. Practical exercises from this book and their solutions can also be found in the accompanying Springer book by W.K. Härdle and Z. Hlávka: *Multivariate Statistics - Exercises and Solutions*. The Quantlet platform, quantlet.de, quantlet.com, quantlet.org, is an integrated QuantNet environment consisting of different types of statistics-related documents and program codes. Its goal is to promote reproducibility and offer a platform for sharing validated knowledge native to the social web. QuantNet and the corresponding data-driven document-based visualization allow readers to reproduce the tables, pictures and calculations presented in this Springer book.
