1. Record Nr. UNISA990002214810203316

Titolo	Biological reaction engineering : dynamic modelling fundamentals with simulation examples / Irving J. Dunn ...[et al.]
Pubbl/distr/stampa	Zurich : Wiley-Vch GmbH & Co., 2003
ISBN	3-527-30759-1
Edizione	[2. ed. completamente riv.]
Descrizione fisica	XVI, 508 p. ; 24 cm. + 1 CD-ROM
Collana	Also of interest
Disciplina	660.283
Soggetti	Reattori chimici
Collocazione	660.283 BIO
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9911016076003321

Autore	Michelucci Umberto
Titolo	Statistics for Scientists : A Concise Guide for Data-driven Research / / by Umberto Michelucci
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	9783031781476 9783031781469
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (0 pages)
Disciplina	519.5
Soggetti	Mathematical statistics - Data processing Computer science - Mathematics Mathematical statistics Statistics Statistics and Computing Probability and Statistics in Computer Science Statistics in Engineering, Physics, Computer Science, Chemistry and Earth Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction to Statistics -- Types of Data -- Data Collection Methods (Sampling Theory) -- Measures of Central Tendency -- Measures of Dispersion -- Measures of Positions -- Outliers -- Introduction to Distributions -- Skewness, Kurtosis and Modality -- Data Visualisation -- Confidence Intervals -- Hypothesis Testing -- Correlation and Linear Regression -- Statistical Project - Steps and Process -- Appendix A - Partioning of the Ordinary Least Square Variance -- Appendix B - Big-O and Little-o Notation.
Sommario/riassunto	This book offers researchers and practitioners a concise and accessible guide to the essential concepts in statistics, emphasizing their proper application. It encourages readers to delve deeper into the fascinating field of statistics, a branch of mathematics that enhances our understanding of the world around us. Designed to provide enough material for a short introductory course, Statistics for Scientists caters to students at all levels. It emphasizes real-world applications,

providing scientists with the tools they need to conduct more reliable and valid studies, ultimately contributing to the advancement of scientific knowledge. Learn to interpret statistical results accurately and draw meaningful conclusions from your data, significantly contributing to the advancement of scientific knowledge. Structured to deliver a clear overview of statistics and data analysis for scientific research, the book begins with fundamental concepts, including random variables, outcome spaces, and the distinction between descriptive and inferential statistics. It then explores data types, measures of central tendency, dispersion, and position. The discussion continues with an examination of outliers and various methods for identifying them. As the chapters progress, more complex topics such as distributions, hypothesis testing, and regression analysis are introduced in a step-by-step manner. This structure makes the book suitable for readers ranging from beginners to those seeking a quick refresher. The author has selected key concepts that anyone interested in using statistics should be familiar with. Some topics, such as hypothesis testing, are covered briefly; a more comprehensive treatment would require a stronger background in statistics and mathematics (such as calculus). With pedagogical elements that include text boxes with Definitions, Examples, and Warnings, this book introduces the necessary concepts of statistics for scientists described in a short and concise way, enriched with tips and rigorous explanations. This book is an invaluable resource for scientists seeking to improve their data analysis skills and contribute to the growing body of scientific knowledge through rigorous and reliable research.