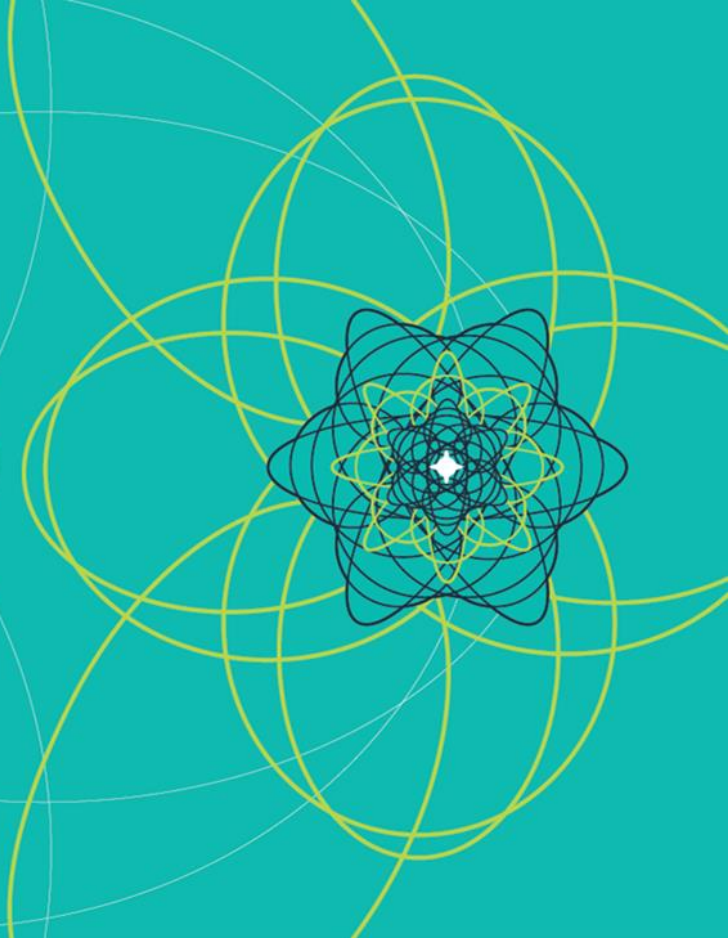
eBook Collection: Mathematics and Statistics

Eva Hiripi & Thomas Hempfling

CRY 2022 – 495 eBooks



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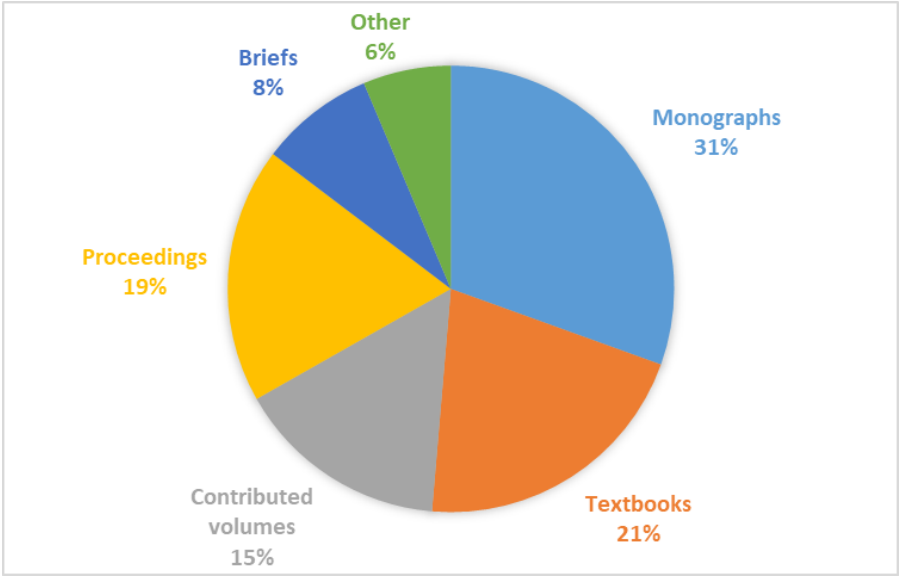
Valuable content

Book types (*based on 2021)*



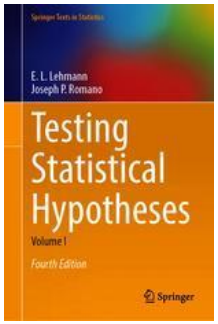
What it offers

Our Mathematics and Statistics eBook Collection contains invaluable carefully curated books that support every scientist in their quest for truth, from student-friendly undergraduate textbooks to authoritative monographs on the latest advances.

Springer is the market leader in mathematics and statistics publishing. The Collection can be relied on to cover everything by the leading specialists of any given field.

Textbooks highlights in 2022

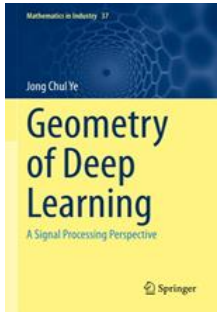
4th Ed.



E.L. Lehmann,
Joseph P. Romano
A classic graduate textbook. After fifteen years, there will be a lot of excitement about the release of a new edition.

3rd ed. (2005):
195k downloads, 28 citations

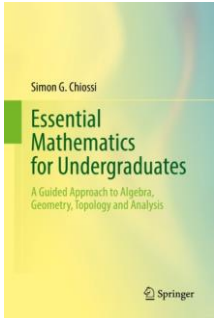
1st Ed.



Jong Chul Ye
Gives students a geometric insight to help them understand Deep Learning in a unified framework. Particular focus on Deep Neural Networks and their relations to Deep Learning.

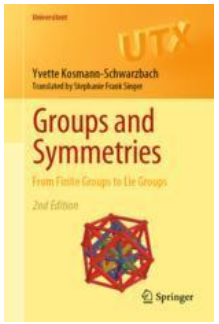
14k downloads within 4 weeks

1st Ed.



Simon G. Chiossi
Explains core elementary subjects of undergraduate mathematics. Offers a rich set of exercises and references for self-study.

2nd Ed.

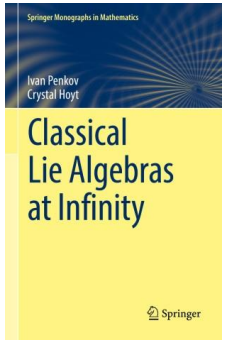


Yvette Kosmann-Schwarzbach
Connects students to many branches of mathematics (algebra, geometry, and analysis).

1st ed. (2010):
35k downloads, 14 citations

Other highlights in 2022

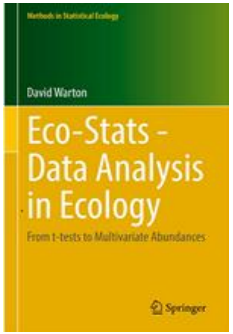
1st Ed.



Ivan Penkov, Crystal Hoyt

The book bridges a traditional graduate course to research level representation theory. It assembles the available tools and methods in a new, coherent theory, building from foundational material.

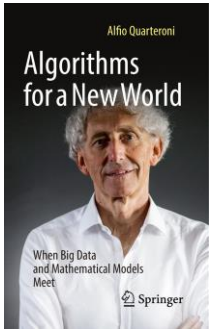
1st Ed.



David Warton

Introduction to modern data analytics for ecologists. The book is illustrated with examples using the open-source software environment R.

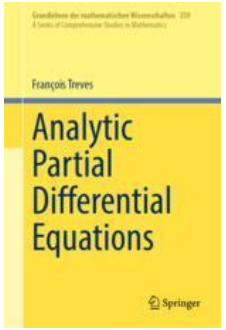
1st Ed.



Alfio Quarteroni

Opportunities and threats behind machine learning algorithms are analysed from a very original perspective by a leading figure in applied mathematics

1st Ed.

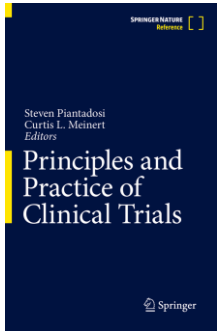


François Treves

An impressive treatise, written by a leading expert. Every library will want to have a copy

Major Reference Works in 2022

1st Ed.



C.L. Meinert

Broad spectrum of clinical trial principles and practice are covered in detail

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Hot and emerging topics and 2022 books or series related to it

1	High-Dimensional Data Analysis	**Fundamentals of High-Dimensional Statistics** (Lederer, Springer) **Large-Sample Techniques for Statistics** (Jiang - the 2nd edition of the classic textbook has new material on high-dimensional statistics)
2	Mathematics of Pandemics	**Predicting Pandemics in a Globally Connected world** (N. Bellomo, ed., MSSET series, Birkhäuser) **Mathematics of Public Health** (V. Kumar Murty, ed., Fields Institute Comm., Springer)
3	Cryptography	**Protecting Privacy through Homomorphic Encryption** (Lauter/Dai/Laine) **Cryptography for Secure Encryption** (Underwood, Universitext)
4	Optimization	**Turnpike Phenomenon and Symmetric Optimization Problems** (A.J. Zaslavski, SOIA series) **Exact and Heuristic Methods in Combinatorial Optimization** (R. Marti/G. Reinelt, AMS series)

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Thank you

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