

1. Record Nr.	UNISALENTO991003771269707536
Autore	Bokshtein, B. S. (Boris Samuilovich)
Titolo	Thermodynamics and kinetics in materials science : a short course / Boris S. Bokstein, Mikhail I. Mendelev, and David J. Srolovitz
Pubbl/distr/stampa	New York : Oxford University Press, 2005
ISBN	0198528043
Descrizione fisica	xiii, 326 p. : ill. ; 25 cm. + 1 CD-ROM
Altri autori (Persone)	Mendelev, Mikhail I. Srolovitz, David J.
Disciplina	536 .7
Soggetti	Thermodynamics - Textbooks Chemical kinetics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr.	UNINA9910786825803321
Autore	Chung Moo K.
Titolo	Statistical and computational methods in brain image analysis / / Moo K. Chung
Pubbl/distr/stampa	Boca Raton : , : CRC Press, , 2014
ISBN	0-429-09432-9 1-4398-3636-1
Descrizione fisica	1 online resource (432 p.)
Collana	Chapman & Hall/CRC mathematical and computational imaging sciences series
Classificazione	MAT029000SCI089000TEC059000
Disciplina	612.82
Soggetti	Brain - Imaging Brain - Imaging - Statistical methods Brain mapping - Statistical methods
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"A Chapman & Hall book."
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Front Cover; Contents; Preface; Chapter 1: Introduction to Brain and Medical Images; Chapter 2: Bernoulli Models for Binary Images; Chapter 3: General Linear Models; Chapter 4: Gaussian Kernel Smoothing; Chapter 5: Random Fields Theory; Chapter 6: Anisotropic Kernel Smoothing; Chapter 7: Multivariate General Linear Models; Chapter 8: Cortical Surface Analysis; Chapter 9: Heat Kernel Smoothing on Surfaces; Chapter 10: Cosine Series Representation of 3D Curves; Chapter 11: Weighted Spherical Harmonic Representation; Chapter 12: Multivariate Surface Shape Analysis Chapter 13: Laplace-Beltrami Eigenfunctions for Surface Data Chapter 14: Persistent Homology; Chapter 15: Sparse Networks; Chapter 16: Sparse Shape Models; Chapter 17: Modeling Structural Brain Networks; Chapter 18: Mixed Effects Models; Bibliography; Color Insert; Back Cover
Sommario/riassunto	The massive amount of nonstandard high-dimensional brain imaging data being generated is often difficult to analyze using current techniques. This challenge in brain image analysis requires new computational approaches and solutions. But none of the research papers or books in the field describe the quantitative techniques with detailed illustrations of actual imaging data and computer codes. Using

MATLAB and case study data sets, Statistical and Computational Methods in Brain Image Analysis is the first book to explicitly explain how to perform statistical analysis on brain imaging data. The book focuses on methodological issues in analyzing structural brain imaging modalities such as MRI and DTI. Real imaging applications and examples elucidate the concepts and methods. In addition, most of the brain imaging data sets and MATLAB codes are available on the author's website. By supplying the data and codes, this book enables researchers to start their statistical analyses immediately. Also suitable for graduate students, it provides an understanding of the various statistical and computational methodologies used in the field as well as important and technically challenging topics.--
