

1. Record Nr.	UNINA9910464112403321
Autore	Wright Daniel B
Titolo	Modern regression techniques using R [[electronic resource] ] : a practical guide for students and researchers / / Daniel B. Wright and Kamala London
Pubbl/distr/stampa	Los Angeles, [Calif.] ; ; London, : SAGE, 2009
ISBN	1-4462-4410-5 1-283-28914-8 9786613289148 1-4462-0602-5 0-85702-449-3
Descrizione fisica	1 online resource (217 p.)
Altri autori (Persone)	LondonKamala
Disciplina	300.72 519.536
Soggetti	Regression analysis Social sciences - Statistical methods Free computer software Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Contents; Preface; 1 Very brief introduction to R; 2 The basic regression; 3 ANOVA as regression; 4 ANCOVA: Lord's paradox and mediation analysis; 5 Model selection and shrinkage; 6 Generalized linear models (GLMs); 7 Regression splines and generalized additive models (GAMs); 8 Multilevel models; 9 Robust regression; 10 Conclusion - make your data cool; Glossary of R functions used in this book; References; Index
Sommario/riassunto	Techniques covered in this book include multilevel modeling ANOVA and ANCOVA, path analysis, mediation and moderation logistic regression, generalised additive models, and robust methods. These are all tested out using a range of real research examples conducted by the authors in every chapter.

2. Record Nr.	UNINA9911034863503321
Autore	Liu Xiaozhou
Titolo	Acoustic Radiation Force : Principles and Application in Medical Ultrasound / / by Xiaozhou Liu, Hairong Zheng
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	9789819531523 9789819531516
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (340 pages)
Collana	Advances in Acoustics, , 3091-3381
Altri autori (Persone)	ZhengHairong
Disciplina	534
Soggetti	Acoustics Ultrasonics Medical physics Biophysics Medical Physics Bioanalysis and Bioimaging
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1: Acoustic Radiation Force on Spherical Particles by Gaussian Traveling Waves Based on Ray Acoustics -- Chapter 2: Acoustic Radiation Force on Spherical Particles by Spherically Focused Ultrasound Based on Ray Acoustics -- Chapter 3: Acoustic Radiation Force on Spherical Particles by Plane Waves and Gaussian Traveling Waves Based on Scattering Acoustics -- Chapter 4: Acoustic Radiation Force on Spherical Particles by Gaussian Standing Waves Based on Scattering Acoustics -- Chapter 5: Acoustic Radiation Force on Multilayer Spherical Particles by Gaussian Traveling Waves Based on Scattering Acoustics -- Chapter 6: Acoustic Radiation Force of Other Sound Sources -- Chapter 7: The Influence of Boundaries on Acoustic Radiation Force -- Chapter 8: Acoustic Radiation Force Between Multiple Particles -- Chapter 9: Medical Applications of Acoustic Radiation Force.
Sommario/riassunto	This book provides a comprehensive overview of the acoustic radiation force on spherical particles. It explores the force exerted by Gaussian traveling waves and spherically focused ultrasound using the ray

acoustics method. The book also discusses the force generated by plane waves and Gaussian traveling waves, using the acoustic scattering method. Additionally, it examines the effects of Gaussian standing waves and multi-layered spherical particles. Beyond these core topics, the book covers the acoustic radiation force from other sound sources. These include beams produced by hollow focused transducers and annular piston transducers, as well as zero-order quasi-Bessel Gaussian beams and Airy-Gauss beams. It also explains how boundaries impact the acoustic radiation force and the interactions between multiple particles. Finally, the book highlights the medical applications of acoustic radiation force. By covering these diverse aspects, the book inspires more in-depth and comprehensive research into using acoustic radiation force to manipulate particles. The book is suitable for upper undergraduate students and graduate students in acoustics, as well as researchers and professionals engaged in the study of ultrasound and medical imaging.

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