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Titolo	Statistical Data Analysis Using SAS : Intermediate Statistical Methods / / by Mervyn G. Marasinghe, Kenneth J. Koehler
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-69239-9
Edizione	[2nd ed. 2018.]
Descrizione fisica	1 online resource (XIV, 679 p. 409 illus., 390 illus. in color.)
Collana	Springer Texts in Statistics, , 2197-4136
Disciplina	519.5
Soggetti	Mathematical statistics - Data processing Probabilities Computer software Statistics Botany Statistics and Computing Probability Theory Mathematical Software Statistical Theory and Methods Plant Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1 Introduction to the SAS Language -- 2 More on SAS Programming and Some Applications -- 3 Introduction to SAS Graphics -- 4 Statistical Analysis of Regression Models -- 5 Analysis of Variance Models -- 6 Analysis of Variance: Random and Mixed Effects Models -- 7 Beyond Regression and Analysis of Variance -- Appendices -- References.
Sommario/riassunto	The aim of this textbook (previously titled SAS for Data Analytics) is to teach the use of SAS for statistical analysis of data for advanced undergraduate and graduate students in statistics, data science, and disciplines involving analyzing data. The book begins with an introduction beyond the basics of SAS, illustrated with non-trivial, real-world, worked examples. It proceeds to SAS programming and applications, SAS graphics, statistical analysis of regression models, analysis of variance models, analysis of variance with random and

mixed effects models, and then takes the discussion beyond regression and analysis of variance to conclude. Pedagogically, the authors introduce theory and methodological basis topic by topic, present a problem as an application, followed by a SAS analysis of the data provided and a discussion of results. The text focuses on applied statistical problems and methods. Key features include: end of chapter exercises, downloadable SAS code and data sets, and advanced material suitable for a second course in applied statistics with every method explained using SAS analysis to illustrate a real-world problem. New to this edition:

- Covers SAS v9.2 and incorporates new commands
- Uses SAS ODS (output delivery system) for reproduction of tables and graphics output
- Presents new commands needed to produce ODS output
- All chapters rewritten for clarity
- New and updated examples throughout
- All SAS outputs are new and updated, including graphics
- More exercises and problems
- Completely new chapter on analysis of nonlinear and generalized linear models
- Completely new appendix Mervyn G. Marasinghe, PhD, is Associate Professor Emeritus of Statistics at Iowa State University, where he has taught courses in statistical methods and statistical computing. Kenneth J. Koehler, PhD, is University Professor of Statistics at Iowa State University, where he teaches courses in statistical methodology at both graduate and undergraduate levels and primarily uses SAS to supplement his teaching.
