1.	Record Nr.	UNINA9910465298803321
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	Titolo	Applied regression and modeling : a computer integrated approach / / Amar Sahay
	Pubbl/distr/stampa	New York, New York (222 East 46th Street, New York, NY 10017) : , : Business Expert Press, , 2016
	ISBN	1-63157-330-6
	Edizione	[First edition.]
	Descrizione fisica	1 online resource (xi, 195 pages)
	Collana	Quantitative approaches to decision making collection, , 2163-9582
	Disciplina	519.536
	Soggetti	Regression analysis - Data processing Electronic books.
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references (page [191]) and index.
	Nota di contenuto	1. Introduction to regression and correlation analysis -- 2. Regression, covariance, and coefficient of correlation -- 3. Illustration of least squares regression method -- 4. Regression analysis using a computer -- 5. Multiple regression: computer analysis -- 6. Model building and computer analysis -- 7. Models with qualitative independent (dummy) variables, interaction models, all subset and stepwise regression models with computer analysis -- 8. Notes on implementation of regression models -- Bibliography -- Index.
	Sommario/riassunto	This book creates a balance between the theory, practical applications, and computer implementation behind Regression--one of the most widely used techniques in analyzing and solving real world problems. The book begins with a thorough explanation of prerequisite knowledge with a discussion of Simple Regression Analysis including the computer applications. This is followed by Multiple Regression--a widely used tool to predict a response variable using two or more predictors. Since the analyses of regression models involve tedious and complex computations, complete computer analysis including the interpretation of multiple regression problems along with the model adequacy tests and residual analysis using widely used computer software are presented. The use of computers relieves the analyst of tedious, repetitive calculations, and allows one to focus on creating and interpreting successful models. Finally, the book extends the concepts

to Regression and Modeling. Different models that provide a good fit to a set of data and provide a good prediction of the response variable are discussed. Among models discussed are the nonlinear, higher order, and interaction models, including models with qualitative variables. Computer analysis and interpretation of computer results are presented with real world applications. We also discuss all subset regression and stepwise regression with applications. Several flow charts are presented to illustrate the concepts. The statistical concepts for regression, computer instructions for the software-- Excel and MINITAB--used in the book and all of the data files used can be downloaded from the website link provided.