1. Record Nr. UNINA9910812835303321

Autore	Chang Ai-Fu
Titolo	Refinery engineering : integrated process modeling and optimization / / Ai-Fu Chang, Kiran Pashikanti, and Y.A. Liu
Pubbl/distr/stampa	Weinheim, : Wiley-VCH, c2012
ISBN	3-527-66683-4 1-299-31359-0 3-527-66686-9
Edizione	[1st ed.]
Descrizione fisica	1 online resource (523 p.)
Altri autori (Persone)	PashikantiKiran LiuY. A (Yih An)
Disciplina	665.53
Soggetti	Petroleum - Refining
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	1. Characterization, physical and thermodynamic properties of oil fractions -- 2. Atmospheric distillation unit -- 3. Vacuum distillation unit -- 4. Predictive modeling of the fluid catalytic cracking (FCC) process -- 5. Predictive modeling of the continuous catalyst regeneration (CCR) reforming process -- 6. Predictive modeling of the hydroprocessing units.
Sommario/riassunto	Petroleum refining is one of the most important yet challenging industries, and continues to be a major contributor in the production of transportation fuels and chemicals. Current economic, regulatory and environmental concerns place significant pressure on refiners to upgrade and optimize the refining process. At the same time, new product demands are urging refiners to explore alternative processing units and feedstocks. This textbook represents a pioneering and comprehensive introduction to this complex subject, using many of the tools and techniques currently employed in modern r

2. Record Nr. UNINA9910975077503321

Autore	Hardin James W (James William)
Titolo	Generalized estimating equations / / James W. Hardin, Joseph M. Hilbe
Pubbl/distr/stampa	Boca Raton, : CRC Press, 2013 Boca Raton : , : CRC Press, , 2013
ISBN	1-04-006278-4 0-429-11103-7 1-4398-8114-6
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (274 p.)
Classificazione	MAT029000
Altri autori (Persone)	HilbeJoseph
Disciplina	519.5/44
Soggetti	Generalized estimating equations
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.
Nota di contenuto	Front Cover; Contents; Preface; Chapter 1: Introduction; Chapter 2: Model Construction and Estimating Equations; Chapter 3: Generalized Estimating Equations; Chapter 4: Residuals, Diagnostics, and Testing; Chapter 5: Programs and Datasets; References; Back Cover
Sommario/riassunto	Generalized Estimating Equations, Second Edition updates the best-selling previous edition, which has been the standard text on the subject since it was published a decade ago. Combining theory and application, the text provides readers with a comprehensive discussion of GEE and related models. Numerous examples are employed throughout the text, along with the software code used to create, run, and evaluate the models being examined. Stata is used as the primary software for running and displaying modeling output; associated R code is also given to allow R users to replicate Stata examples. Specific examples of SAS usage are provided in the final chapter as well as on the book's website.This second edition incorporates comments and suggestions from a variety of sources, including the Statistics.com course on longitudinal and panel models taught by the authors. Other enhancements include an examination of GEE marginal effects; a more thorough presentation of hypothesis testing and diagnostics, covering competing hierarchical models; and a more detailed examination of previously discussed subjects. Along with doubling the number of end-

of-chapter exercises, this edition expands discussion of various models associated with GEE, such as penalized GEE, cumulative and multinomial GEE, survey GEE, and quasi-least squares regression. It also offers a thoroughly new presentation of model selection procedures, including the introduction of an extension to the QIC measure that is applicable for choosing among working correlation structures. See Professor Hilbe discuss the book--

CHAPTER 1 Preface Second Edition We are pleased to offer this second edition to Generalized Estimating Equations. This edition benefits from comments and suggestions from various sources given to us during the past ten years since the first edition was published. As a consequence, we have enhanced the text with a number of additions, including more detailed discussions of previously presented topics, program code for examples in text, and examination of entirely new topics related to GEE and the estimation of clustered and longitudinal models. We have also expanded discussion of various models associated with GEE; penalized GEE, survey GEE, and quasi-least squares regression, as well as the number of exercises given at the end of each chapter. We have also added material on hypothesis testing and diagnostics, including discussion of competing hierarchical models. We have also introduced more examples, and expanded the presentation of examples utilizing R software. The text has grown by 40 pages. This edition also introduces alternative models for ordered categorical outcomes and illustrates model selection approaches for choosing among various candidate specifications. We have expanded our coverage of model selection criterion measures and introduce an extension of the QIC measure which is applicable for choosing among working correlation structures (see 5.1.2 in particular). This is currently a subject of considerable interest among statisticians having an interest in GEE--