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Titolo	Multivariable model-building [[electronic resource]] : a pragmatic approach to regression analysis based on fractional polynomials for modelling continuous variables / / Patrick Royston, Willi Sauerbrei
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ISBN	1-281-84100-5 9786611841003 0-470-77077-5 0-470-77078-3
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Collana	Wiley series in probability and statistics
Altri autori (Persone)	SauerbreiWilli
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Nota di bibliografia	Includes bibliographical references (p. 271-283) and index.
Nota di contenuto	Multivariable Model-Building; Contents; Preface; 1 Introduction; 1.1 Real-Life Problems as Motivation for Model Building; 1.1.1 Many Candidate Models; 1.1.2 Functional Form for Continuous Predictors; 1.1.3 Example 1: Continuous Response; 1.1.4 Example 2: Multivariable Model for Survival Data; 1.2 Issues in Modelling Continuous Predictors; 1.2.1 Effects of Assumptions; 1.2.2 Global versus Local Influence Models; 1.2.3 Disadvantages of Fractional Polynomial Modelling; 1.2.4 Controlling Model Complexity; 1.3 Types of Regression Model Considered; 1.3.1 Normal-Errors Regression 1.3.2 Logistic Regression 1.3.3 Cox Regression; 1.3.4 Generalized Linear Models; 1.3.5 Linear and Additive Predictors; 1.4 Role of Residuals; 1.4.1 Uses of Residuals; 1.4.2 Graphical Analysis of Residuals; 1.5 Role of Subject-Matter Knowledge in Model Development; 1.6 Scope of Model Building in our Book; 1.7 Modelling Preferences; 1.7.1 General Issues; 1.7.2 Criteria for a Good Model; 1.7.3 Personal Preferences; 1.8 General Notation; 2 Selection of

Variables; 2.1 Introduction; 2.2 Background; 2.3 Preliminaries for a Multivariable Analysis; 2.4 Aims of Multivariable Models
2.5 Prediction: Summary Statistics and Comparisons
2.6 Procedures for Selecting Variables; 2.6.1 Strength of Predictors; 2.6.2 Stepwise Procedures; 2.6.3 All-Subsets Model Selection Using Information Criteria; 2.6.4 Further Considerations; 2.7 Comparison of Selection Strategies in Examples; 2.7.1 Myeloma Study; 2.7.2 Educational Body-Fat Data; 2.7.3 Glioma Study; 2.8 Selection and Shrinkage; 2.8.1 Selection Bias; 2.8.2 Simulation Study; 2.8.3 Shrinkage to Correct for Selection Bias; 2.8.4 Post-estimation Shrinkage; 2.8.5 Reducing Selection Bias; 2.8.6 Example; 2.9 Discussion
2.9.1 Model Building in Small Datasets
2.9.2 Full, Pre-specified or Selected Model?; 2.9.3 Comparison of Selection Procedures; 2.9.4 Complexity, Stability and Interpretability; 2.9.5 Conclusions and Outlook; 3 Handling Categorical and Continuous Predictors; 3.1 Introduction; 3.2 Types of Predictor; 3.2.1 Binary; 3.2.2 Nominal; 3.2.3 Ordinal, Counting, Continuous; 3.2.4 Derived; 3.3 Handling Ordinal Predictors; 3.3.1 Coding Schemes; 3.3.2 Effect of Coding Schemes on Variable Selection; 3.4 Handling Counting and Continuous Predictors: Categorization
3.4.1 'Optimal' Cutpoints: A Dangerous Analysis
3.4.2 Other Ways of Choosing a Cutpoint; 3.5 Example: Issues in Model Building with Categorized Variables; 3.5.1 One Ordinal Variable; 3.5.2 Several Ordinal Variables; 3.6 Handling Counting and Continuous Predictors: Functional Form; 3.6.1 Beyond Linearity; 3.6.2 Does Nonlinearity Matter?; 3.6.3 Simple versus Complex Functions; 3.6.4 Interpretability and Transportability; 3.7 Empirical Curve Fitting; 3.7.1 General Approaches to Smoothing; 3.7.2 Critique of Local and Global Influence Models; 3.8 Discussion; 3.8.1 Sparse Categories
3.8.2 Choice of Coding Scheme

Sommario/riassunto

Multivariable regression models are of fundamental importance in all areas of science in which empirical data must be analyzed. This book proposes a systematic approach to building such models based on standard principles of statistical modeling. The main emphasis is on the fractional polynomial method for modeling the influence of continuous variables in a multivariable context, a topic for which there is no standard approach. Existing options range from very simple step functions to highly complex adaptive methods such as multivariate splines with many knots and penalisation. This new approach

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Soggetti	Medicine, Chinese Medicine, Chinese - Philosophy
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Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>Still reeling from her young son's death, Jackie Sheppard retreats to a small town in the Colorado Rockies. Comforted that no one knows of her tragic past, she's thrilled to take a job at family law firm, where she meets Tom, the local carpenter. Jackie's distrust of others hinders their relationship, but they slowly build a budding romance. However, as she begins to settle into her new life, disturbing things start happening to Jackie—objects are moved around her house, an indentation of a body appears on her freshly made bed, and a bouquet of wildflowers are inexplicably left by her door. With eccentric residents in the town, Jackie dismisses the oddities, but as Tom's checkered background reveals that his wife and child were murdered, Jackie believes she may be the next target of a sadistic killer. Acclaimed for its strong characters and thrilling plot, MIND TRYST is Robyn Carr's only psychological suspense novel. Delighting fans of suspense since 1993, it will continue to leave readers looking over their shoulders long after they've turned the last page. Robyn Carr is the #1 New York Times bestselling author of the VIRGIN RIVER novels and the THUNDER POINT series. "Horrifying... This spine-tingling psychothriller will strike a chord with single women everywhere." —Booklist "A seamless suspense novel that guarantees readers edge-of-the-seat drama... A knockout!" —Publishers Weekly "Robyn Carr knows why you read the psychothriller: for the primal scream of terror." —Philadelphia Inquirer</p>

"Once you pick it up, there's no putting it aside... Resonates because it taps into all women's vulnerability and raises issues as hot as the latest session with 'Donahue.'" —New Woman "Move over Hannibal Lecter... A chilling, gripping piece about a cunning psychopathic serial killer... Fascinating!" —Rapport News, Los Angeles
