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Nota di contenuto	Practical Methods for Design and Analysis of Complex Surveys; Contents; Preface; 1 Introduction; 2 Basic Sampling Techniques; 2.1 Basic definitions; 2.2 The Province'91 population; 2.3 Simple random sampling and design effect; 2.4 Systematic sampling and intra-class correlation; 2.5 Selection with probability proportional to size; 3 Further Use of Auxiliary Information; 3.1 Stratified sampling; 3.2 Cluster sampling; 3.3 Model-assisted estimation; 3.4 Efficiency comparison using design effects; 4 Handling Nonsampling Errors; 4.1 Reweighting; 4.2 Imputation 4.3 Chapter summary and further reading5 Linearization and Sample Reuse in Variance Estimation; 5.1 The Mini-Finland Health Survey; 5.2 Ratio estimators; 5.3 Linearization method; 5.4 Sample reuse methods; 5.5 Comparison of variance estimators; 5.6 The Occupational Health Care Survey; 5.7 Linearization method for covariance-matrix estimation; 5.8 Chapter summary and further reading; 6 Model- assisted Estimation for Domains; 6.1 Framework for domain estimation; 6.2 Estimator type and model choice; 6.3 Construction of estimators

and model specification; 6.4 Further comparison of estimators
6.5 Chapter summary and further reading
7 Analysis of One-way and Two-way Tables; 7.1 Introductory example; 7.2 Simple goodness-of-fit test; 7.3 Preliminaries for tests for two-way tables; 7.4 Test of homogeneity; 7.5 Test of independence; 7.6 Chapter summary and further reading; 8 Multivariate Survey Analysis; 8.1 Range of methods; 8.2 Types of models and options for analysis; 8.3 Analysis of categorical data; 8.4 Logistic and linear regression; 8.5 Chapter summary and further reading; 9 More Detailed Case Studies; 9.1 Monitoring quality in a long-term transport survey
9.2 Estimation of mean salary in a business survey
9.3 Model selection in a socioeconomic survey; 9.4 Multi-level modelling in an educational survey; References; Author Index; Subject Index

Sommario/riassunto

Large surveys are becoming increasingly available for public use, and researchers are often faced with the need to analyse complex survey data to address key scientific issues. For proper analysis it is also important to be aware of the different aspects of the design of complex surveys. Practical Methods for Design and Analysis of Complex Surveys features intermediate and advanced statistical techniques for use in designing and analysing complex surveys. This extensively updated edition features much new material, and detailed practical exercises with links to a Web site, helping instructors
