

1. Record Nr.	UNINA9910784210603321
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Titolo	Linear models for the prediction of animal breeding values [[electronic resource] /] / R.A. Mrode ; with a chapter contributed by R. Thompson
Pubbl/distr/stampa	Wallingford, UK ; ; Cambridge, MA, : CABI Pub., c2005
ISBN	1-280-73537-6 9786610735372 1-84593-102-5
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (358 p.)
Altri autori (Persone)	ThompsonR
Disciplina	636.08/2/015195
Soggetti	Livestock - Breeding - Mathematical models Livestock - Breeding - Statistical methods Livestock - Genetics - Mathematical models Livestock - Genetics - Statistical methods
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 (p. 333-340) and index.
Nota di contenuto	Contents; Preface; 1 Genetic Evaluation with Different Sources of Records; 2 Genetic Covariance Between Relatives; 3 Best Linear Unbiased Prediction of Breeding Value: Univariate Models with One Random Effect; 4 Best Linear Unbiased Prediction of Breeding Value: Models with Random Environmental Effects; 5 Best Linear Unbiased Prediction of Breeding Value: Multivariate Models; 6 Maternal Trait Models: Animal and Reduced Animal Models; 7 Analysis of Longitudinal Data; 8 Use of Genetic Markers in Prediction of Breeding Values; 9 Non-additive Animal Models 10 Analysis of Ordered Categorical Traits 11 Estimation of Genetic Parameters; 12 Application of Gibbs Sampling in Variance Component Estimation and Prediction of Breeding Value; 13 Solving Linear Equations; Appendix A: Introductory Matrix Algebra; Appendix B: Fast Algorithms for Calculating Inbreeding Based on the L Matrix; Appendix C; Appendix D: Methods for Obtaining Approximate Reliability for Genetic Evaluations; Appendix E; Appendix F: Procedure for Best Linear Unbiased Prediction (BLUP)
Sommario/riassunto	BLUP has become the most widely accepted method for genetic evaluation of domestic livestock. Since its

introduction, the method has evolved and despite this there is no simple text on the application of linear models to the predictions of breeding values. This book has been written with a good balance of theory and application to fill this gap. Equations for partitioning breeding values into contributions from various sources of information are derived under the various models. Recent developments in the analysis of longitudinal data with random regression models are also covered. The book is intended for students, researchers and practitioners in animal breeding and related fields.
