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3.4.6 Growth, survival, conformation and dressout traits; 3.4.7 Disease resistance; 3.5 References; 4 Selection and Realized Heritability; 4.1 Introduction; 4.2 Theory; 4.2.1 Estimating and predicting heritability; 4.2.2 Applying selection; 4.2.3 Correlated responses; 4.2.4 Multi-trait approaches; 4.2.5 Complicating and constraining factors; 4.2.6 Improving selection efficiency; 4.2.7 Using family data; 4.3 Practice; 4.3.1 Implementation difficulties; 4.3.2 Identification options; 4.3.3 Lack of response to selection
4.4 Illustrative Investigations And Applications
4.4.1 Evaluating available strains; 4.4.2 Domestication selection; 4.4.3 Conflicting results; 4.4.4 Correlated responses; 4.4.5 Indirect selection through production practices; 4.4.6 Indirect measurement; 4.4.7 Altering environmental tolerances; 4.4.8 Adjusting data for environmental bias; 4.4.9 Accounting for differences between sexes; 4.4.10 Genotype by environment interactions; 4.4.11 Miscellaneous results: finfish; 4.4.12 Miscellaneous results: mollusks; 4.4.13 Miscellaneous results: crustaceans; 4.5 References
5 Inbreeding, Crossbreeding and Hybridization
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5.3.7 Crossbreeding or hybridization in breed formation

Sommario/riassunto

Over recent years there have been major advances in the application of molecular, biotechnological and genetic techniques to a wide range of aquatic species. Until now, many working in a hands-on capacity in the area of aquaculture have not known what the benefits of this work could be to them. This important new book redresses this situation, providing clear details of the available scientific information and the direct application of techniques under simple and practical situations.
