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Characterization of Groundwater Systems""; ""5.1 Introduction""; ""5.2 Reconnaissance-Level Investigations""; ""5.3 Geophysical Investigations""; ""5.4 Test Drilling and Well Installation""; ""5.5 Water Quality Characterization""; ""5.6 Characterization Guidance and Specifications""; ""5.7 References""; ""6. Quantitative Analysis of Groundwater Systems""; ""6.1 Use of Models in Groundwater Management""; ""6.2 Constructing Site-Specific Simulation Models""; ""6.3 Optimization Methods for Groundwater Management""; ""6.4 References""""7. Model Calibration and Parameter Structure Identification in Characterization of Groundwater Systems""; ""7.1 Introduction""; ""7.2 Parameterization of Heterogeneity""; ""7.3 Parameter Structure Identification""; ""7.4 Interpolation Point Selection""; ""7.5 Model Selection""; ""7.6 Bayesian Model Averaging""; ""7.7 Experimental Design""; ""7.8 Summary and Conclusions""; ""7.9 References""; ""8. Development of Groundwater Resources""; ""8.1 Introduction""; ""8.2 Aquifer Yield and Groundwater Availability""; ""8.3 Effects of Groundwater Development""; ""8.4 Regional Scale Development of Groundwater""""8.5 Conjunctive Use of Surface Water and Groundwater""; ""8.6 Coastal Aquifer Development""; ""8.7 Development of Brackish Groundwater""; ""8.8 References""; ""9. Subsurface and Surface Water Flow Interactions""; ""9.1 Introduction""; ""9.2 Subsurface Flow in Near Stream Environments""; ""9.3 Surface-Subsurface Interactions at the Hillslope Scale""; ""9.4 Watershed Scale Groundwater and Surface Water Interactions""; ""9.5 References""; ""10. Density Dependent Flows, Saltwater Intrusion and Management""; ""10.1 Introduction""; ""10.2 Density-Dependent Governing Equations""

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