## **List of Tables**

3.1	Mean deviation between numerical and analytical solution of pore pressure perturbation for models with varying source sizes. The errors are given in percent for different distances from the source location.	•	28
3.2	Mean deviation between numerical and analytical solution of pore pressure perturbation for a representative 3D model. The errors are given in percent for different distances from the source location.	•	30
3.3	Exponential and Gaussian autocorrelation functions and their Fourier transforms $\Phi$ (pseudo spectral density functions) in 2D and 3D.	•	37
3.4	Percentages of events below the parabolic envelope according to equation (2.6) for models containing spatially correlated criticality.	•	39
3.5	Modeled and reconstructed components of the diffusivity tensor and its orientation.	•	51
4.1	Percentages of events located below the envelopes shown in figure 4.14b.	•	78
5.1	Orientations of the principal diffusivities found for the Cotton Valley data set. Negative values of the dip correspond to a vector dipping from the horizontal towards the negative <i>z</i> -axis. $\dots \dots \dots$	•	87
A.1	3D models and modeling parameters	. 1	102
A.2	3D models and modeling parameters.	. 1	110

## LIST OF TABLES