Index

Page numbers in *italic* denote figures. Page numbers in **bold** denote tables.

Fundamental Controls on Fluid Flow in Carbonates

Current Workflows to Emerging Technologies

Edited by
S. M. Agar and S. Geiger

This volume highlights key challenges for fluid-flow prediction in carbonate reservoirs, the approaches currently employed to address these challenges and developments in fundamental science and technology. The papers span methods and case studies that highlight workflows and emerging technologies in the fields of geology, geophysics, petrophysics, reservoir modelling and computer science. Topics include: detailed pore-scale studies that explore fundamental processes and applications of imaging and flow modelling at the pore scale; case studies of diagenetic processes with complementary perspectives from reactive transport modelling; novel methods for rock typing; petrophysical studies that investigate the impact of diagenesis and fault-rock properties on acoustic signatures; mechanical modelling and seismic imaging of faults in carbonate rocks; modelling geological influences on seismic anisotropy; novel approaches to geological modelling; methods to represent key geological details in reservoir simulations and advances in computer visualization, analytics and interactions for geoscience and engineering.

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Cover illustration:

Multi-touch operations applied to post-processing of a reservoir model. The user is pulling the model apart into several arbitrary blocks to view properties inside the model.

Photo by M. Costa Sousa.