

## Contents

Preface	vii
PETFORD, N. & MCCAFFREY, K. J. W. Hydrocarbons in crystalline rocks: an introduction	1
SCHUTTER, S. R. Hydrocarbon occurrence and exploration in and around igneous rocks	7
SCHUTTER, S. R. Occurrences of hydrocarbons in and around igneous rocks	35
MAGARA, K. Volcanic reservoir rocks of northwestern Honshu island, Japan	69
KONING, T. Oil and gas production from basement reservoirs: examples from Indonesia, USA and Venezuela	83
PETFORD, N. Controls on primary porosity and permeability development in igneous rocks	93
MCCAFFREY, K. J. W., SLEIGHT, J. M., PUGLIESE, S. & HOLDSWORTH, R. E. Fracture formation and evolution in crystalline rocks: Insights from attribute analysis	109
OGILVIE, S. R., ISAKOV, E., TAYLOR, C. W. & GLOVER, P. W. J. Characterization of rough-walled fractures in crystalline rocks	125
KOENDERS, M. A. & PETFORD, N. Thermally induced primary fracture development in tabular granitic plutons: a preliminary analysis	143
POTTER, J. & KONNERUP-MADSEN, J. A review of the occurrence and origin of abiogenic hydrocarbons in igneous rocks	151
PSYRILLOS, A., BURLEY, S. D., MANNING, D. A. C. & FALICK, A. E. Coupled mineral–fluid evolution of a basin and high: kaolinization in the SW England granites in relation to the development of the Plymouth Basin	175
DEGNAN, P. J., LITTLEBOY, A. K., MICHIE, U.Mc.L., JACKSON, C. P. & WATSON, S. P. Fracture-dominated flow in the Borrowdale Volcanic Group at Sellafield, NW England: the identification of potential flowing features, development of conceptual models and derivation of effective parameters	197
SANDERS, C. A. E., FULLARTON, L. & CLAVERT, S. Modelling fracture systems in extensional crystalline basement	221
Index	237