

Contents

Preface	vii
GOFF, J. C. & WILLIAMS, B. P. J. Introduction	viii
Section 1: Fluid Flow in Compacting Basins	
CHAPMAN, R. E. Fluid flow in sedimentary basins: a geologist's perspective	3
MAGARA, K. Fluid flow due to sediment loading—an application to the Arabian Gulf region	19
Section 2: Fluid Flow in the Western Canadian Sedimentary Basin	
HITCHON, B., BACHU, S., SAUVEPLANE, C. M. & LYTVIAK, A. T. Dynamic basin analysis: an integrated approach with large data bases	31
CORBET, T. & TÓTH, J. Post Palaeocene evolution of regional groundwater flow systems and their relation to petroleum accumulations, Taber area, southern Alberta, Canada	45
JONES, F. W. & MAJOROWICZ, J. A. Some aspects of the thermal regime and hydrodynamics of the western Canadian sedimentary basin	79
BRADBURY, H. J. & WOODWELL, G. R. Ancient fluid flow within foreland terrains	87
Section 3: Fluid Flow in United Kingdom Groundwater Basins	
DOWNING, R. A., EDMUNDS, W. M. & GALE, I. N. Regional groundwater flow in sedimentary basins in the U.K.	105
BATH, A. H., MILODOWSKI, A. E. & STRONG, G. E. Fluid flow and diagenesis in the East Midlands Triassic sandstone aquifer	127
PRICE, M. Fluid flow in the Chalk of England	141
WILSON, N. P. & LUHESHI, M. N. Thermal aspects of the East Midlands aquifer system	157
Section 4: Fluid Flow in Low Permeability and Fractured Media	
ALEXANDER, J., BLACK, J. H. & BRIGHTMAN, M. A. The role of low-permeability rocks in regional flow	173
BLACK, J. H. Flow and flow mechanisms in crystalline rock	185
BROWN, D. A. The flow of water and displacement of hydrocarbons in fractured chalk reservoirs	201
Index	219