Contents

Acknowledgements vi

DAVISON, I., ALSOP, G. I. & BLUNDELL, D. J. Salt tectonics: some aspects of deformation mechanics 1

Outcrop, mine and borehole studies

BURIGA, S. Kinematics within the Klodawa salt diapir, central Poland 11

DAVISON, I., BOSENCE, D., ALSOP, G. I. & AL-AAWAH, M. H. Deformation and sedimentation around active Miocene salt diapirs on the Tihama Plain, northwest Yemen 23

FRUMKIN, A. Uplift rate relative to base-levels of a salt diapir (Dead Sea Basin, Israel) as indicated by cave levels 41


SANS, M., SANCHEZ, A. L. & SANTANACH, P. Internal structure of a detachment horizon in the most external part of the Pyrenean fold and thrust belt (northern Spain) 65

SMITH, D. B. Deformation in the late Permian Boulby Halite (EZ3Na) in Teesside, NE England 77

TALBOT, C. J. & ALAVI, M. The past of a future syntaxis across the Zagros 89

Regional case studies

BUCHANAN, P. G., BISHOP, D. J. & HOOD, D. N. Development of salt-related structures in the Central North Sea: results from section balancing 111

EDGELL, H. S. Salt tectonism in the Persian Gulf Basin 129

SPATHOPOULOS, E. An insight on salt tectonics in the Angola Basin, South Atlantic 153

STEWART, S. A., HARVEY, M. J., OTTO, S. C. & WESTON, P. J. Influence of salt on fault geometry: examples from the UK salt basins 175

ZIRNGAST, M. The development of the Gorleben salt dome (northwest Germany) based on quantitative analysis of peripheral sinks 203

Physical modelling

ALSOP, G. I. Physical modelling of fold and fracture geometries associated with salt diapirism 227

KOYTI, H. Salt flow by aggrading and prograding overburdens 243

SZATMARI, P., GUERRA, M. C. M. & PEQUENO, M. A. Genesis of large counter-regional normal fault by flow of Cretaceous salt in the South Atlantic Santos Basin, Brazil 259

Numerical and geophysical modelling

COHEN, H. A. & HARDY, S. Numerical modelling of stratal architectures resulting from differential loading of a mobile substrate 265

PETERSEN, K. & LERCHE, I. Temperature dependence of thermal anomalies near evolving salt structures: importance for reducing exploration risk 275

POLIAKOV, A. N. B., PODLADCHIKOV, Y. Y., DAWSON, E. CH. & TALBOT, C. J. Salt diapirism with simultaneous brittle faulting and viscous flow 291

Index 303