

Contents

Acknowledgements	vi
DAVISON, I., ALSOP, G. I. & BLUNDELL, D. J. Salt tectonics: some aspects of deformation mechanics	1
Outcrop, mine and borehole studies	
BURLIGA, S. Kinematics within the Kłodawa 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
HOYOS, M., DOBLAS, M., SÁNCHEZ-MORAL, S., CAÑAVÉRAS, J. C., ORDONEZ, S., SESÉ, C., SANZ, E. & MAHECHA, V. Hydration diapirism: a climate-related initiation of evaporite mounds in two continental Neogene basins of central Spain	49
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, F. 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
KOYI, 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