

Contents

Preface	vii
Regional coal reserves, coal basin tectonics and stratigraphy	
DORUSKA, J. The Czech Republic Energy Policy: conception and implementation in a market economy	1
PEŠEK, J. & DOPITA, M. Coal production and usage in the Czech Republic	3
KUMPERA, O. Controls on the evolution of the Namurian paralic basin, Bohemian Massif, Czech Republic	13
KRS, M., PEŠEK, J., PRUNER, P., SKOČEK, V. & SLEPIČKOVA, J. The origin of magnetic remanence components of Westphalian C to Stephanian C sediments, West Bohemia: a record of waning Variscan tectonism	29
DREESEN, R., BOSSIROY, D., SWENNEN, R., THOREZ, J., FADDA, A. OTTELLI, L. & KEPPENS, E. A depositional and diagenetic model for the Eocene Sulcis coal basin of SW Sardinia	49
INANER, H. & NAKOMAN, E. Turkish lignite deposits	77
KARAYIGIT, A. I. & WHATELEY, M. K. G. The origin and properties of a coal seam associated with continental thin micritic limestones, Selimoglu–Divrigi, Turkey	101
KARAYIGIT, A. I. & WHATELEY, M. K. G. Chemical characteristics, mineralogical composition and rank of high sulphur coking coals of Middle Miocene age in the Gökler coal field, Gediz, Turkey	115
ȚICLEANU, N. & DIACONIȚA, D. The main coal facies and lithotypes of the Pliocene coal basin, Oltenia, Romania	131
ŠIŠKOV, G. D. Bulgarian low rank coals: geology and petrology	141
STUKELOVA, I. E. Coal petrology and facies associations of the South Yakutian Coal Basin, Siberia	149
Coal petrology and palaeontology	
GAYER, R. A., FOWLER, R. & DAVIES, G. Coal rank variations with depth related to major thrust detachments in the South Wales coalfield: implications for fluid flow and mineralization	161
DVOŘÁK, J., HONĚK, J., PEŠEK, J. & VALTEROVÁ, P. Deep borehole evidence for a southward extension of the Early Namurian deposits near Němčičky, S Moravia Czech Republic: implication for rapid coalification	179
KOSTOVA, I., MARKOVA, K. & KUNTSHEV, K. Mössbauer spectroscopic investigation of low rank coal lithotypes	195
PREMOVIĆ, P. I., NIKOLIĆ, N. D. & PREMOVIĆ, M. P. Comparison of solid state ¹³ C NMR of algal coals/anthracite and charcoal-like fusinites: further evidence for graphitic domains	201
SÝKOROVÁ, I., ČERNÝ, J., PAVLÍKOVÁ, H. & WEISHAURTOVÁ, Z. Composition and properties of North Bohemian coals	207
STEFANOVA, M. & MAGNIER, C. Aliphatic biological markers in Miocene Maritza-Iztok lignite, Bulgaria	219
SYBRYAJ, S. Floristic characters of the upper coal-bearing formation in the Transcarpathians	229

Mineral matter in coal and the environment

BAQRI, S. R. H. The distribution of sulphur in the Palaeocene coals of the Sindh province of Pakistan	237
CAVENDER, P. F. & SPEARS, D. A. Sulphur distribution in a multi-bed seam	245
BOUŠKA, V., PEŠEK, J. & ŽÁK, K. Values of $\delta^{34}\text{S}$ in iron disulphides of the North Bohemian lignite basin, Czech Republic	261
JANKES, G., CVETKOVIC, O. & GLUMICIC, T. Determination of different forms of sulphur in Yugoslav soft brown coals	269
PREMOVIĆ, P. I., NIKOLIĆ, N. D., PAVLOVIĆ, M. S., JOVANOVIĆ, LJ. S. & PREMOVIĆ, M. P. Origin of vanadium in coals: parts of the western Kentucky (USA) No. 9 coal rich in vanadium	273
SPEARS, D. A. Environmental impact of minerals in UK coals	287

Mining geophysics

GREGOR, V. & TĚŽKÝ, A. A well logging method for the determination of the sulphur contents in coal seams by means of deep gamma-spectrometry	297
MACH, K. A logging correlation scheme for the main coal seam of the North Bohemian brown coal basin, and the implications for the palaeogeographical development of the basin	309
HOLUB, K. Seismic monitoring for rock burst prevention in the Ostrava–Karviná coalfield, Czech Republic	321
KALÁB, Z. An analysis of mining induced seismicity and its relationship to fault zones	329
OPLUŠTIL, S., PEŠEK, J. & SKOPEC, J. Comparison of structures derived from mine workings and those interpreted in seismic profiles: an example from the Kačice deposit, Kladno Mine, Bohemia	337

Coal technology and coalbed methane

BARRAZA, J., CLOKE, M. & BELGHAZI, A. Improvements in direct coal liquefaction using beneficiated coal fractions	349
ALEKSIĆ, B. R., ERCEGOVAC, M. D., CVETKOVIĆ, O. G., MARKOVIĆ, B. Z., GLUMIČIĆ, T. L., ALEKSIĆ, B. D. & VITROVIĆ, D. K. Conversion of low rank coal into liquid fuels by direct hydrogenation	357
ASMATULU, R., ACARKAN, N., ONAL, G. & CELIK, M. S. Desulphurization of low-rank coals by low-temperature carbonization	365
WHATELEY, M. K. G., GENCER, Z. & TUNCALI, E. Amelioration of high organic sulphur coal for combustion in domestic stoves	371
STANOJEVIĆ, P., JANKES, G., KUBROVIĆ, M., STANOJEVIĆ, M. & BLAGOJEVIĆ, P. The use of pulverized lignite/natural gas mixed fuels in the high-temperature process of a cement rotary kiln	379
DOUCHANOV, D. & MINKOVA, V. The possibility of underground gasification of Bulgarian Dobrudja's coal	385
BOARDMAN, E. L. & RIPPON, J. H. Coalbed methane migration in and around fault zones	391
HOLUB, V., ELIÁŠ, M., HRAZDÍRA, P. & FRANCŮ, J. Geological research into gas sorbed in the coal seams of the Carboniferous in the Mšeno–Roudnice basin, Czech Republic	409
GRZYBEK, I., GAWLIK, L., SUWAŁA, W. & KUZAK, R. Estimation method for methane emission from Polish coal mining	425
TAKLA, G. & VAVRUŠÁK, Z. Methane emissions and its utilization from Ostrava–Karviná collieries in the Upper Silesian coal basin, Czech Republic	435