Index of Subjects

AAR (alkali-aggregate reaction) 49-50
AASHTO classification, use in Jamaica 61-67
AASHTO compaction 139
abrasivity, of Hawkesbury Sandstone, Sydney, Australia see Hawkesbury Sandstone
abrasivity index: Schimazek's F-value 10
acidisation
acid concentration 123
acid volume 122
borehole development and rehabilitation 109-125
chemical principles, stoichiometry 113
effect on geophysical logging 117-121
field evaluation 115-121
method of acid application 123-124
acidity in granular soils, effect of air drying 149-153
afforestation, of hill slopes, Nainital 183
air drying of soils 152-153
Ajali Sandstone, SE Nigeria
CBR test 142
chemical tests 143
geology 137-139
geotechnical evaluation 137-148
shear strength test 142
stabilisation 145
alluvial soils samples, Iraq 359-368
Altiplano, Bolivia see Bolivia, Altiplano
anisotropy ratio, of aquifers 202
aquifer compressibility, specific storage 130-131
aquifer storage parameters estimation 127-135
aquifer transmissivity 201, 202
aquifer units, eastern England 338
Atterberg limits, and soil compaction parameters estimation 359-368
Atterberg limits, and derived indices 167-168
authigenic kaolinite, as cementing material 248
bed erosion control (Kailakhan) 183
bedding karst
multilayered groundwater flows 205-216
NE Mt Xishan, China 207-209
block toe disintegration, Carnic Alps 191
block-type slope movements 185
Bolivia, Altiplano
estimation of storativity 131-133
storativity testing techniques 127, 128
borehole acidisation 109-125
borehole capture zone defining, Shropshire, UK 193-204
borehole development, use of acidisation 109-125
borehole logging 75
borehole rehabilitation, use of acidisation 109-125
Brazilian tensile strength test 6, 12
Bregga borrow area 45, 48-49
British building stones 306
brittle failure, Sherwood sandstone 271
brittleness ratio (UCS/BTS) 7
building stone
compressive strength (ASTM C170) 310
decay 155-157, 317
durability
acid immersion test 311
(ASTM C119) 310
crystallization test 310
saturation coefficient and porosity 310-311
quarrying
calculation of quantities 309
rate and method of working 308-309
stripping ratio 307
sampling 311
testing: appearance, strength, durability 309-310
building stone extraction, geologist's role 307-308
building stone and planning 312
14C dating 214
calcite leaching 176
calcite removal, and earthflow instability 163, 168-169, 172, 174-175
calcite saturation, Lancun and Xiahuai springs 214
caliper logs, effect of acidisation 118-121
Candoer Scheme, groundwater management 342
Carboniferous limestones 293-299
Carnic Alps, Austria, rock fall prediction 185-192
Çatak area, structural geology 103
Çatak landslide
gemorphological map 105
hydrothermal alterations and weathering 102
local geology 102-104
natural oversteepening 106
regional geology 99-102
Cathedral Quarry, Lincoln 312-315
caves (Nottingham)
crown hole development 243-251
roof failure 245-248
CBR test 142, 145
cement-stabilized soil, geotechnical properties 143-148
Chalk
contamination by mine-drainage water 354
mine geometry and age 281-283
Chalk boreholes, effect of acidisation 116
chalk mineworkings abandoned 281-291
appraisal scheme 282
assessment 286-287
deterioration and collapse 284-286
interfactor relationship 283
mechanism influence network 287
mechanism maps 288
micro-macro deterioration processes 285
stability evaluation 287-290
Chek Lap Kok Airport (Hong Kong) 81-82
chemical stratification, groundwaters 197
China see Mt Xishan, China; Taiyuan, China
Chiniwa Basin (China), paleokarst depressions 207
classification, of rock mass weathering 69-76
clay plasticity 163
compressible clays, Hong Kong 89
conceptual water balance 199
crystal technology, influence of climate and geology 25-60
conjunctive use, of surface and groundwater 352
Control of Pollution Act (1947) 346-347
core abrasion test 9-10, 11
core cutting test 8-9, 11
Cretaceous limestones (Chalk) 291-300
crown hole development 243-251

Dangerous Substances Directive classification 228
debris plane 185
decay, of building stone 155-157, 317
Department of the Environment and Welsh Office, aquatic environment 229-230
Department of the Environment and Welsh Office circulars 228
design, of check dam 184
Devonian limestones 302
digital terrain model 88
directives (EEC) 228-229
displacement-time curves of the Tressdorfer Höhe 186
used for rock fall prediction 190
dredging, Hong Kong 93
drilling slurry dissolution 113
ductile deformation, of Permian rocks 272
ductility number (UCS/BTS) 7
Durham area limestone 301
earthflow
and carbonate removal 163
weathering and regolith properties 163-178
Eastern Pontids, geological map 100
EC Regulations and Directives 226, 227, 228, 229
Edmond Bridge, water supply station 193
Edmond Bridge catchment area
government survey 196
groundwater head distribution 196
hydrogeology 193-197

Edmond Bridge pumping test, Newman’s type curve
method 197
Edwinstowe
felt/reported seismic events 260-262
magnitude and number of seismic events 260
microseismicity 259-260
mining-induced tremors 262-268
temporal variations of seismicity 272-274
Thoresby Colliery 262-268, 270-272
electronic extensometer measurements 185-186
engineering geology, North Lantau, Hong Kong 81-98
environment (aquatic), dangerous substances criteria 229
environmental hazards
Nainital Lake 181-182
of unplanned urbanization of mountainous terrains 179-184
environmental regeneration, Kailakhan 183
European legislation, and hydrogeology 227-231
F-value (Schimazek) 5, 6, 10, 11, 13, 14, 16
failure mechanisms, Carnic Alps 191
Fengfeng formations 205
finite-difference groundwater flow model 199
fissures, and roof failure, Nottingham caves 251
flow, joints and infiltration, Mt Xishan 209
Fuller’s Earth
calcite content 322, 325
continued movement slopes 324
decalcification and residual shear strength reduction 324
plasticity index 323, 325
residual shear strength 321-325
silt components 321-324
similarities with weathering scheme for London Clay 175-176
gas blanking, Hong Kong seismic records 93
gas permeability changes, of rock salt 327-334
gas pressure, in acidisation 123-124
geo-environmental hazards Kailakhan 182
GEOBOL-UNDP, Altiplano 128, 131-133
Geographical Information System (GIS), and engineering
classification 281, 288, 289
geophysical logging, effect of acidisation 117-121
géophysically survey, Edmond Bridge catchment area 196
granites (Hong Kong), engineering properties 95
granular soils, abnormal acidity 149-153
Great Man-Made River Project
climate and geology 30-41
concrete technology 53-55
ground aggressivity in relation to the pipe 55-58
history 25-30

374
Phase I 25-60
quarries, pits and aggregates 45-53
regional geology setting 33-35
sedimentary geology 38-41
seismic risk design 35-38
Great Ouse Scheme, groundwater management 341
grid method, for reservoir capacity evaluation 218, 222

groundwater
abstraction control 338
abstraction licenses 338
chemical stratification 197
chemistry 339

Groundwater Directive (EC) 227-231
groundwater flow
in karstic block mountains 205-216
Mt Xishan, Taluan, China 205-216
groundwater flow modelling 199-202
groundwater flow systems 336
groundwater head distribution, Edmond Bridge 196
groundwater inflow (GWI) and outflow (GWO), East Shropshire 198
groundwater level hydrography, Luncun borehole 208
groundwater management 340-345
groundwater model validation 202
groundwater pollution, radioactivity and synthetic organic chemicals 347
groundwater pollution control 338
Groundwater Provinces, UK 336, 337
groundwater quality 345-347
groundwater recharge 339
groundwater resources development
abstraction (England and Wales) 350
conjunctive use 352
England and Wales 348-355
infiltration 351
principle aquifers 349
groundwater resources (UK) 335-358
gushflows, karstic springs 207

Ham Hill (Yeo vil) building stone 315-316
Hawkesbury Sandstone
abrasivity 5-17
cuttability 5, 7-8
cutting and abrasion testing 10-12
engineering properties 6-7
mineralogical composition 7
hazard mitigation measures, Nainital 182-183
hazards, of building on high hill slopes 180-181
high-purity limestones, England and Wales 193-303
Himalaya, environmental hazards of unplanned urbanization 179-184
Hipparion laterite 207
Hoe Lane North Borehole acidisation 119
Hong Kong, saprolitic soils 87-88, 233-237

Hong Kong, North Lantau
bedrock geology 83-84
bedrock properties 85-96
construction materials 94-95
engineering geology 81-98
geological structures 84-85
hydrology 89-90
offshore superficial soils 88-89
onshore superficial soils 88
piled foundations 94
reclamation 93-94
saprolitic and residual soils 87-88
seismicity 95
stability of cut slopes 90-91
stability of natural slopes 91-93
superficial geology 85
topography and drainage 83
underground development 95
weathering 86-87
Hong Kong, Tuen Mun, development of a new town 2-4
horizontal drains, sources of seepage (Hong Kong) 19-20
Humberside limestones 299
hydrogeological cross sections, Libya 28
hydrogeology, and European legislation 226-231
HYPOCENTER, and tremor location 258
hypocentral depth, Thoresby Colliery tremors 270-272

impeller flow logging 196
India, Konark Sun Temple, building stones decay 155-157
infiltration, groundwater resources 351
infiltration assessment, Penman method 339
Ingletonian rocks, Yorkshire 161-162
Iraq, alluvial soil samples 359-368
isotopic analyses 214
Jamaica, road construction 61-67
joints, and infiltrating flow 209
Jurassic limestones 301-302

Kailakhan, environmental hazards and regeneration 182, 183
karst
layered 207
uplift and development of vertical 209
karst water
confined and unconfined flow 209-214
evidence for confined 202-204
karstic springs 205-216 passim
karstification 207, 207-209
khondalite
petrology 155-156
weathering 156-157
kinematics, pre-failure stage of rock falls 189, 192
Konark Sun Temple, India, building stone decay 155-157

Lake District limestones 298-299
Lancashire Conjunctive Use Scheme 353
Lancun borehole, groundwater level hydrography 208
landslide hazards, Naina peak slopes 181
landslides, controlled relict joints (Hong Kong) 91
landslips, in calcareous mudrock 324
layered karst 207
Liangjishan formations 205
Libya, Great Man-Made River Project Phase I 25-60
limestone resources, and land-use 293
limestones, high-purity (UK) 293-303
Lincoln Cathedral, conservation studies 316
Lincoln Cathedral stone 312
Lincolnshire limestones 299
locked sandstone 250
logging, effect of acidisation 117-121
London Basin groundwater development 344-345
London Clay, similarities of weathering scheme with Fuller’s Earth 174, 175-176
low cost estimates of aquifer parameters 127-133
Lower Mesopotamian Plain, Iraq, alluvial soils 359-368

Majiagu formations 205
Malabar Outfall Decline Tunnel 13-14
marine ground investigations 2
marine mud 2-3
Mendips, limestones in the 295-296
microseismicity, Edwinstowe 259-260
milky salt 329-330
mine geometry and age (Chalk) 281-283
Mineral Hardness Scale 10
mineralogical model, building stone decay 155-157
mineworkings in Chalk, abandoned 281-291
mining-induced seismicity 253-279
mining-induced tremors, frequency magnitude plot 272
monitoring, of rock slopes 185-186
Mt Xishan
China
geology and topography 205-206
layered caves 2-7
vertical zones of caves 207
mudflows 163
mudwave reclamation, Hong Kong 93

Naina peak slopes
landslide hazards 181
stability 183
Nainital
afforestation of the hill slopes 183
geological setting 180
gеotechnical map 180
hazard mitigation measures 182-183
hazards of unplanned urbanization 179-184
hill slopes creep movements 181
physiography 179-180

Nainital Lake
environmental hazards 181-182
mitigation of pollution 183
siltation rate 182
national scheme, for the classification of listed substances 229
Newcastle-upon-Tyne abrasion test 10
Newcastle-upon-Tyne cutting test 9
Newman’s type curve method, and Edmond Bridge pumping test 197
Nigeria, Ajali sandstone see Ajali Sandstone, SE Nigeria
nitrate concentrations, Permo-Triassic sandstone aquifer 193, 197
nitrates, EC maximum allowable concentration 193
North Lantau, Hong Kong see Hong Kong, North Lantau
North Pennines limestones 298
North Wales limestones 297-298
Notional Factor of Safety (NFS) 288
Nottingham, crown hole development in the sandstone caves 243-251
Nottingham Castle Sandstone 244-245
Nottinghamshire
seismic array
array geometry 255-258
seismic instrumentation 255-258
Nottinghamshire Coalfield, mining-induced seismicity 253-279
numerical techniques
in reservoir capacity evaluation 217-225
verification by a physical model 220-225

paleokarst depressions, Chiniwa Basin 207
PCC pipes
construction 58
ground aggressivity 55-58
Peak District limestones 295
permeability measurement, pulse decay method 327-329
Permian dolomites 300-301
Permo-Triassic sandstone aquifer, nitrate pollution 193
phenoblastic salt 329
pile testing 4
pillar-and-stall sand mines, Nottingham 248
plasticity, road construction, Jamaica 65
polynomial interpolation, in reservoir capacity evaluation 218-220
pore pressure dissipation, Hong Kong 93
rock slopes, accelerated movements and water supply 189
rock slopes monitoring 185-186
rocks, chemical decomposition (Hong Kong) 87
rocksalt
gas permeability changes 327-334
permeability measuring apparatus 329
roof collapse, the role of water 250
roof failure
and natural fissures 251
Nottingham Sandstone caves 246-248
and vibrations 251
saline intrusion (Chalk) 352
sandstone
effect of water on its strength 248-250
effect of weathering on roof failure 250
sandstone aquifer, borehole capture zone defining 193-204
sandstone caves of Nottingham, crown hole
development 243-251
sandstone caves progressive failure 244
saprolites, Hong Kong, slope design 233
saprolitic soils
Hong Kong 87-88
decomposition and shear strength components 235
lower limit of shear strength 237
reversal shear box test 233-237
Sarir borrow area 45-48
Schimazek’s F-value 5, 6, 10, 11, 13, 14, 16
secondary failure, influence on block statics in rock falls 191
sedimentation, analyses of reservoir 217
seepage (Hong Kong)
dilapidated U-channels 20-21
discharge and rainfall records 23
from retaining wall weepholes 19-24
leaking horizontal drains 22
natural hollows 21-22
sources of 19-24
seismic events, rock fall prediction 191
seismic instrumentation, array geometry 255-258
seismicity
in the Edwinstowe area, temporal variations 272-274
Hong Kong 95
mining-induced 253-279
Severn Estuary limestones 296
shear strength, Ajali Sandstone 142, 143
Sher-hi-danda Hill, creep and stability analysis 181, 182-183
Sherwood sandstone, brittle failure 271
siltation rate, Nainital Lake 182
Silurian limestones 302
slate testing, sills and roofing slates 309
slope design, Hong Kong saprolites 233
slope protection 147
slope stability
   Hong Kong 90
   mechanisms for failure initiation 175
soil compaction parameters estimation 359-368
soils, abnormal acidity in granular 149-153
South Wales limestones 296-297
Southern England limestones 299-300
specific storage, aquifer compressibility 130-131
specific yield, estimation techniques 129
Stanford Street caves, Nottingham 245-248
stone decay, causes 317
stone restoration and conservation 316
storativity
   estimation techniques 130-131, 133-134
   field testing 131-133
   'hydrogeologist's guess' 134
   Todd estimate 129, 134
stratigraphical relations, Çatak, Turkey 101
stream bank stabilization, Kailakhan 183
stream course gradients 182
stress relief fissuring 174, 175, 176
Sure, progressive karstification 207
surface hazard zonation, utilizing GIS 288, 289
Sy and S estimation, aquifer storage 129-133
Sydney Harbour Tunnel 5, 7, 8, 11, 12-13
Sydney Ocean Outfalls 5
Taiyuan, China, bedding karst and groundwater flows 205-216
Taiyuan Basin, karstification 207
Taiyuan rift block 205
tectonic framework, Libya 27
tectonic structures, Ollerton and Edwinstowe 254
temperature, of karst springs 214
terrain classification, Hong Kong 88
Thames Scheme, groundwater management 341
thermo-mechanical stress, and gas permeability changes of rocksalt 327-334
Thoresby Colliery tremors 262-268, 270-272
time prediction, of a rock fall (Carnic Alps) 185-192
TM71-instrument, for monitoring rock slopes 185-186
Todd estimate of storativity 129, 134
tool wear 5
topping failure 90, 191
   static analysis 186-187	
   tremor location, and HYPOCENTER 258
tremors, in coal mining areas 253
Tressdorfer Hrhe, Carnic Alps, rock falls 185
tribology 15
tritium content and age, karst waters 214, 215, 216
Tsing Shan landslide 91
Tuen Mun, Hong Kong, development of a new town 2-4
Turley, Çatak landslide 99-108
UK, acidisation in practice 109-110
UK water legislation 227
uniaxial compressive strength 145-146
uranium analysis 214
urbanization in mountainous terrain, Himalaya 179-184
vertical karst, Mt Xinan 207
volcanic tuffs, Hong Kong, engineering properties 95
Wadi Farigh, Libya, cross-section 48
Wales, high-purity limestones in England and 293-303
water
   effect on sandstone 248-250
   role in roof failures 248, 250
Water Act (1945) 335
Water Act (1989) 348
water balance, East Shropshire 197-198
Water Directives, dangerous substances 227
water flow model, of multilayered karst (Mt Xishan) 209-216
Water Resources Act (1963) 340, 345
Water Resources Act (1973) 345, 347
Water Resources Act (1991) 335
water resources assessment 338-340
Water Resources Board 341
water supply station, Edmond Bridge 193
Waveney Scheme, groundwater management 341
weathering
   at an earthflow site 163-178
   calcite content and slope stability 174-175
   of consolidated mudrocks, compared to Fuller's Earth 163, 167, 169, 173, 176
   and density variations 172-174
   engineering significance 70, 71
   of kholodite 156-157
   and regolith properties at an earthflow site 163-178
   of rock mass, by rating systems 69-76
   of rocks, terminology 69
   of sandstone and roof failure 250
weathering zones, in regolith profiles 166, 167
weepholes, seepage from retaining wall 19-24
well tests interpretation 339
Welsh Borders, limestones in the 302
Xiping Basin 205
Xishan synclinorium 205
Yanshan Tectonic movements 205
Yorkshire limestones 301
YUNTA development programme 128
## Index of Localities

### Australia, Sydney
5-17

### Austria, the Carnic Alps
185-192

### Bolivia, Altiplano (Provincia Villarroel)
127-135

### China
- Mt Xishan
  - Taiyuan 205-216

### Himalaya (Kumaun), Nainital
179-184

### Hong Kong
19-24
- Castle Peak Bay 2-4
- Check Lap Kok Airport 81
- North Lantau 81-98
- Tuen Mun New Town 2-4

### India, Konark Sun Temple
155-157

### Iraq, Lower Mesopotamian Plain
359-368

### Jamaica, West Indies
61-67

### Libya
25-60

### New Zealand, North Island
163-178

### Nigeria, Southeastern
137-148

### Spain
69-76

### Turkey, Çatak Village
99-108

### UK
109-125, 335-358
- Blackwater River (Hampshire-Surrey border) 149
- Durham 301
- Eastern England 338
- Edwinstowe 254, 258, 259-260, 260-268
- England and Wales 293-303, 349, 350, 351
- Hampshire-Surrey border, River Blackwater 149
- Humberside 299
- Lake District 298-299
- Lincoln
  - Cathedral Quarry 312-315
  - Lincoln Cathedral 316
- Lincolnshire 299
- Mansfield Rd, Nottingham 248
- North Pennines 298
- North Wales 297-298
- North Yorkshire 301
- Nottingham 243-251
- Nottinghamshire Coalfield 253-279
- Peak District 295
- Severn Estuary 296
- Shropshire 185-192, 193-204
  - Edmond Bridge 193-197
- South Devon 302
- South Wales 296-297
- South Yorkshire 301
- Southern England 299-300
- Stanford St, Nottingham 245-248
- The Mendips 295-296
- Thoresby Colliery 262-264, 270-272
- Wales and England 293-303, 349, 350, 351
- Welsh Borders 302
- Yeovil, Ham Hill Quarry 315-316
- Yorkshire 161-162, 301

379
## Index of Authors

<table>
<thead>
<tr>
<th>Authors</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Al-Khafaji, A. N.</td>
<td>359-368</td>
</tr>
<tr>
<td>Allen, M.</td>
<td>253-279</td>
</tr>
<tr>
<td>Anbalagan, R.</td>
<td>179-184</td>
</tr>
<tr>
<td>Au, S. W. C.</td>
<td>19-24, 233-237</td>
</tr>
<tr>
<td>Banks, D.</td>
<td>109-125</td>
</tr>
<tr>
<td>Billiotte, J.</td>
<td>327-334</td>
</tr>
<tr>
<td>Bishop, I.</td>
<td>253-279</td>
</tr>
<tr>
<td>Brulhet, J.</td>
<td>327-334</td>
</tr>
<tr>
<td>Cosgrove, T.</td>
<td>109-125</td>
</tr>
<tr>
<td>Deveughele, M.</td>
<td>327-334</td>
</tr>
<tr>
<td>Downing, R. A.</td>
<td>335-358</td>
</tr>
<tr>
<td>Eze, E. O.</td>
<td>137-148</td>
</tr>
<tr>
<td>Fookes, P. G.</td>
<td>25-60</td>
</tr>
<tr>
<td>Franks, C. A. M.</td>
<td>81-98</td>
</tr>
<tr>
<td>Genc, S.</td>
<td>99-108</td>
</tr>
<tr>
<td>Glawe, U.</td>
<td>185-192</td>
</tr>
<tr>
<td>Harker, D.</td>
<td>109-125</td>
</tr>
<tr>
<td>Harrison, D. J.</td>
<td>293-303</td>
</tr>
<tr>
<td>Hawkins, A. B.</td>
<td>321-325</td>
</tr>
<tr>
<td>Howsam, P.</td>
<td>109-125</td>
</tr>
<tr>
<td>Jefferson, D. P.</td>
<td>305-319</td>
</tr>
<tr>
<td>Le Guen, C.</td>
<td>327-334</td>
</tr>
<tr>
<td>Lerner, D. N.</td>
<td>193-204</td>
</tr>
<tr>
<td>McDonald, C.</td>
<td>321-325</td>
</tr>
<tr>
<td>Mackintosh, J.</td>
<td>25-60</td>
</tr>
<tr>
<td>Maharaj, R. J.</td>
<td>61-67</td>
</tr>
<tr>
<td>Moser, M.</td>
<td>185-192</td>
</tr>
<tr>
<td>Norbury, D. R.</td>
<td>149-153</td>
</tr>
<tr>
<td>Pang, K. K.</td>
<td>19-24</td>
</tr>
<tr>
<td>Papatolios, K. T.</td>
<td>193-204</td>
</tr>
<tr>
<td>Price, D. G.</td>
<td>69-76</td>
</tr>
<tr>
<td>Raymahashay, B. C.</td>
<td>155-157</td>
</tr>
<tr>
<td>Rosenbaum, M. S.</td>
<td>281-291</td>
</tr>
<tr>
<td>Rybar, J.</td>
<td>185-192</td>
</tr>
<tr>
<td>Sabtan, A.</td>
<td>217-225</td>
</tr>
<tr>
<td>Sandover, B. R.</td>
<td>149-153</td>
</tr>
<tr>
<td>Sharma, S.</td>
<td>155-157</td>
</tr>
<tr>
<td>Sheils, A. K.</td>
<td>226-231</td>
</tr>
<tr>
<td>Smith, G. J.</td>
<td>281-291</td>
</tr>
<tr>
<td>Stoner, J. R.</td>
<td>25-60</td>
</tr>
<tr>
<td>Styles, P.</td>
<td>253-279</td>
</tr>
<tr>
<td>Suoware, O. P.</td>
<td>137-148</td>
</tr>
<tr>
<td>Tatcher, J. P.</td>
<td>109-125</td>
</tr>
<tr>
<td>Trotter, C. M.</td>
<td>163-178</td>
</tr>
<tr>
<td>Verhoef, P. N. W.</td>
<td>5-17</td>
</tr>
<tr>
<td>Waltham, A. C.</td>
<td>243-251</td>
</tr>
<tr>
<td>Woods, N. W.</td>
<td>81-98</td>
</tr>
<tr>
<td>Younger, P. L.</td>
<td>127-135</td>
</tr>
<tr>
<td>Zhang, D.</td>
<td>205-216</td>
</tr>
<tr>
<td>Zika, P.</td>
<td>185-192</td>
</tr>
<tr>
<td>Zvelebil, J.</td>
<td>185-192</td>
</tr>
</tbody>
</table>
The Quarterly Journal of Engineering Geology

1993  Vol. 26

Scientific Editor: A. B. Hawkins
Assistant Scientific Editors: K. M. Baxter, G. West


Published by

The Geological Society

Burlington House, Piccadilly, London W1V 0JU, UK.
Contents of Volume 26

No 1

Photographic Feature: Tuen Mun New Town, Hong Kong ......................... 2

P. N. W. VERHOEF: Abrasivity of Hawkesbury Sandstone (Sydney, Australia) in relation to rock dredging ................................................. 5

S. W. C. AU & K. K. PANG: A note on seepage from retaining wall weepholes .... 19

P. G. FOOKES, J. R. STONER & J. MACKINTOSH: Great Man-Made River Project, Libya, Phase I: a case study on the influence of climate and geology on concrete technology ..................................................... 25

R. J. MAHARAJ: Technical Note: Use of AASHTO classification to evaluate soils for road construction in Jamaica, West Indies ............................... 61

D. G. PRICE: Technical Note: A suggested method for the classification of rock mass weathering by a ratings system .............................................. 69

Book reviews ....................................................................................... 77

No 2

C. A. M. FRANKS & N. W. WOODS: Engineering geology of North Lantau, Hong Kong .................................................... 81

S. GENC: Structural and geomorphological aspects of the Çatak landslide, NE Turkey 99


P. L. YOUNGER: Simple generalized methods for estimating aquifer storage parameters 27

E. O. EZE & O. P. SUOWARE: Technical Note: Geotechnical evaluation of untreated and cement-treated Ajali Sandstone from southeastern Nigeria ................... 137

B. R. SANDOVER & D. R. NORBURY: Technical Note: On an occurrence of abnormal acidity in granular soils ........................................... 149

B. C. RAYMAHAHAY & S. SHARMA: Technical Note: Decay of building stones: a mineralogical model for Konark Sun Temple, India ....................... 155

Book reviews ....................................................................................... 159

No 3

Photographic Feature: The Ingletonian ................................................. 161

C. M. TROTTER: Weathering and regolith properties at an earthflow site ........ 163
R. ANBALAGAN: Environmental hazards of unplanned urbanization of mountainous terrains: a case study of a Himalayan town .......................................................... 179

U. GLAWE, P. ZIKA, J. ZVELEBIL, M. MOSER & J. RYBAR: Time prediction of a rock fall in the Carnic Alps ................................................................. 185

K. T. PAPATOLIOS & D. N. LERNER: Defining a borehole capture zone in a complex sandstone aquifer: a modelling case study from Shropshire, UK ............... 193

D. ZHANG: Bedding karst and multilayered groundwater flows in karstic block mountains in the northeast of Mount Xishan, Taiyuan, China ......................... 205

A. SABTAN: Numerical techniques in reservoir capacity evaluation ................... 217

A. K. SHEILS: Hydrogeology and European legislation ................................. 227

S. W. C. AU: Technical Note: Reversal shear box test for Hong Kong saprolitic soils 233

Corrigendum ................................................... 239

No 4

Editorial ..................................................... 241

A. C. Waltham: Crown hole development in the sandstone caves of Nottingham 243

I. Bishop, P. Styles & M. Allen: Mining-induced seismicity in the Nottinghamshire Coalfield ............................................................. 253

G. J. Smith & M. S. Rosenbaum: Abandoned mineworkings in chalk: approaches for appraisal and evaluation ....................................................... 281

D. J. Harrison: High-purity limestones in England and Wales ........................ 293

D. P. Jefferson: Building stone: the geological dimension ............................. 305

A. B. Hawkins & C. McDonald: The influence of granular calcareous particles on the residual shear strength of Fuller’s Earth Clay ............................ 321

C. Le Guen, M. Deveughele, J. Billiotte & J. Brulhet: Gas permeability changes of rocksalt subjected to thermo-mechanical stresses ....................... 327

R. A. Downing: Groundwater resources, their development and management in the UK: an historical perspective ............................................ 335

A. N. Al-Khafaji: Technical Note: Estimation of soil compaction parameters by means of Atterberg limits ....................................................... 359

Book reviews .................................................. 369

Indexes ....................................................... 373