

ALPHABETICAL INDEX

Names of authors are in capitals, subjects in lower case roman, and localities in *italics*; book reviews are placed at the end.

- Absorption coefficient, of quartz, 601
Acid mine drainage, leading to formation of a new mineral, schwertmannite, 641
AIKAWA, N., 601
Aikinite-bismuthinite series, from the *Loch Shin* monzogranite, 39
AKIZUKI, M., 307
Albitites, from the *Mingora* ophiolitic mélange, *Pakistan*, 553
ALDERTON, D.H.M., 473
ALIETTI, E., 655
Alkaline volcanics, the *Serra do Bueno* diatreme: a possible hypabyssal equivalent of the ultramafic alkaline volcanics in the Late Cretaceous *Alto Paranaíba* Igneous Province, *SE Brazil*, 357
ANGEL, R.J., 519
ANTARCTICA, *Vestfold Hills*, Mg-Al yttrian zirconolite in a partially melted sapphirine granulite from, 259
Apatite, high in lead from *Scotland*, 159; sector growth and symmetry of, 299
APTE, A., 501
ARAÚJO, D.P. DE, 409
Arid environment, mineralogy of the near-surface expression of AuAsCu mineralization in, 315
Arizonite, 597
ARRHENIUS, G., 425
Arsenic, -rich nagyagite from *Romania*, 473
ARTIOLI, G., 615
ASHLEY, P.M., 671
Atomic ordering, in apatite, 299
Au-As-Cu minerals, in an arid environment, 315
AUSTRALIA, Arunta Block, boron-free kornerupine from, 27; *New South Wales*, lead oxychlorides formed under saline conditions from, 336; preservation of pre-metamorphic colloform banding in pyrite from the Broken Hill-type Pinnacles deposits, 461; sugilite found in manganese silicate rocks from *New South Wales*, 671; *Victoria*, crystal chemistry of, and intracrystalline relationships of orthopyroxene in a suite of high pressure ultramafic nodules from, 325; *Wychproof*, a new mineral, wyche-prooffite, from, 635
Ba-Fe hollandite, from the Schryburt Lake carbonatite complex, *Canada*, 49
Ba-feldspar, hyalophane, 387
Back scattered electron microscopy, in the identification of triple chain pyriboles, 1
BARBIERI, M., 553
BARDOUX, M., 579
Barium copper silicate, effenbergerite, a new mineral, 663
Basalt, from *west-Central Skye, Scotland*, 347
BAUER, G.R., 589
BAYLISS, P., 597
BELAKOVSKIY, D.I., 285
BELL, B.R., 347
BEVAN, D.J.M., 635
BIGHAM, J.M., 641
Biotite (scapolite-) rocks, from *China*, implications for the ore forming processes, 543
BIRCH, W.D., 635, 505
Bismuth sulphosalts, within quartz veining, 39
BLESER, T., 473
Blixite, a lead oxychloride from Sweden, 336
BOGOCH, R., 315
Borate, rare hydrous calcium borate minerals: nifontovite and olshanskyite, 279
Bornite, thermodynamic prediction on the stability of, 235
Boron-free kornerupine, from *Australia*, 27
BOSE, M.K., 97
BOTSWANA, *Vumba*, zoned uvarovite-grossular garnet in a rodingite from the *Vumba* schist belt, 375
BOYCE, A.J., 486
BOYD, S.R., 490
Braggite, variation of, from the Bushveld Complex, 223
BRAITHWAITE, R.S.W., 79, 449
BRAZIL, palladian gold from *Itabira*, 579; priderite in phlogopitites from the Catalão I carbonatite complex, 409; *São Luiz*, a ruby inclusion in diamond, 490; *Serra do Bueno*, potassic diatreme: a possible hypabyssal equivalent of the ultramafic alkaline volcanics in the Late Cretaceous *Alto Paranaíba* Igneous Province, 357
Brecciation, chondrite breccia, 215
BRIGATTI, M.F., 655
BRIZI, E., 143
Broken Hill-type mineralization, preservation of colloform banding in, 461

- CAGGIANELLI, 553
- Calc-silicate, metasomatism at the interface between a calc-silicate and a metapelite, 205
- Caledonian intrusives, bismuth sulphosalts within quartz veining from the *Loch Shin* monzogranite, 39
- CANADA, *Manitoba*, mineralogic reaction zones at a calc-silicate/metapelite interface, 205; perovskite, loparite and Ba-Fe hollandite from the Schryburt Lake carbonatite complex, 49
- CAPEDEI, S., 655
- Carbonatite, priderite in phlogopitites from a carbonatite complex, 409
- CARLSON, L., 641
- Cavansite, thermal behaviour of, 501
- CAWTHORN, R.G., 299
- Ce anomaly, in some lavas from *Hawaii*, 589
- Cell parameters, for perrierite-(Ce), 607
- Chalcopyrite, thermodynamic prediction on the stability of, 235
- CHANG, L.L.Y., 567
- CHARNOCK, J.M., 185
- Chayesite, in lamproites from *Spain*, 655
- CHINA, halogen-rich scapolite-biotite rocks from *Qinling*, implications for the ore-forming processes, 543
- Choloalite, synthesis and revised chemical formula, 505
- Chondrites, redox processes in the evolution of, 151; —cooling history of the Zaoyang chondrite as determined from Fe²⁺-Mg intracrystalline ordering in pyroxenes, 143
- Chromite, in rodingite, 375
- CHURCH, B.N., 205
- Cl/F ratio, in the formation of chlor- and fluorapatite, 299
- CLELAND, J.M., 387
- Clinojimthompsonite, a triple chain pyribole, 1
- Coal, behaviour of mineral matter during combustion of Spanish subbituminous coal, 119
- Cobalt, a cobalt-rich spinel inclusion in a sapphire from *Thailand*, 247
- Colloform banding, preservation of, in pyrite, 461
- Colour, of sugilite, 681
- Combustion of coal, behaviour of mineral matter during, 119
- Compreignacite, from *Cornwall, England*, 339
- CONCEIÇÃO E SILVA, A.J.G., 409
- Conichalcite, from southern *Israel*, 315
- COOK, N.J., 482
- Cooling rate, of chondrites from *Zaoyang* as determined from Fe²⁺-Mg intracrystalline ordering in pyroxenes, 143
- Cooperite, variation of, from the Bushveld Complex, 223
- Corundum, a high-chromium corundum (ruby) inclusion in diamond, from *Brazil*, 490
- CRESSEY, G., 59, 185
- CRIDDLE, A.J., 59, 417
- Crystal chemical characterization, of roedderite and chayesite in lamproites from *Spain*, 655
- Crystal chemistry, of effenbergerite, 663; of gobbinsite, 615; of orthopyroxene in a suite of high pressure ultramafic nodules from *Australia*, 325
- Crystal structure, of daqingshanite, 490; of fiedlerite, 69; of nagyagite, 479; of synthetic 7 Å and 10 Å manganates substituted by mono- and divalent cations, 425; —refinement of Mg- and Zn-rich sonolite from *New Jersey*, 333
- Cuproscheelite, an EXAFS study of cation site distortions in, 185
- CURETON II, F.F., 417
- Daqingshanite-(Ce), a high-precision crystal refinement of, 490
- DELLA VENTURA, G., 607
- DEMAIFFE, D., 496
- Depression of dissolution, and force of crystallization in volume-for-volume replacement, 135
- DI FLORIO, M.R., 553
- Diagenesis, in volume-for-volume replacement, 135
- Diamond, a ruby inclusion in, 490; —unusual octahedral diamond, 508
- Diamond anvil cell, in the examination of ferroelastic phase transitions, 21
- Diatreme, from *Serra do Bueno, Brazil*, 357
- DICKIN, A.P., 357
- Dislocations, in doubly-terminated natural alpha quartz crystals, 87
- Dissolution, depression of, 135
- Dolomite, sulphides, with high δ³⁴S from a, 486
- DOSTAL, J., 205
- DROOP, G.T.R., 1
- DUNN, P.J., 79, 333
- EAST ANTARCTICA, subsilicic magnesian-hastingsite from, 615
- Effenbergerite, a new mineral from *South Africa*, 663
- Electron diffraction, in the examination of the structures of 7 Å and 10 Å manganates substituted by mono- and divalent cations, 425
- Electron microprobe analyses, of mc Alpineite, a new mineral, 417
- Electron probe microanalysis, of nagyagite, 479
- Element-mineral correlations, to investigate fractionation of REE in fine-grained sediments, 533
- ELORZA, J., 135
- ELTON, N.J., 339, 513
- Elura deposit, lead oxychlorides formed under saline conditions from, 336

- ENGLAND, *Cornwall*, compreignacite from, 339; — nováčekite and metanováčekite from, 513; *Somerset*, parkinsonite, a new mineral from, 59
- Epidote group, hancockite, from *Sweden*, 174
- ERCIT, T.S., 271, 417
- EXAFS spectroscopy, of cation site distortions through the *P2/c-P1* phase transition in the synthetic cuproscheelite-sanmartinite solid solution, 18
- FALLICK, A.E., 486
- FEELY, M., 163
- FERNANDEZ TURIEL, J.L., 119
- Ferric sulphate, mikasaite a new mineral, 649
- Ferro-ferri winchite, from *Filipstad, Sweden*, 168
- Ferroelastic phase transition, in a strontium feldspar, 21
- Feruginous vernadite, a host for mobilized *REE* in Hawaiian basalt, 589
- Fiedlerite, revised chemical formula for (fiedlerite-1A, fiedlerite-2M), 69
- FIJI, thermodynamic prediction on the stability of the nukundamite + chalcopyrite and bornite + pyrite assemblages, 235
- Fine-grained sediments, fractionation of *REE* in, 533
- FINLAND, schwertmannite, a new mineral from *Pyhäsalmi*, 641
- FODOR, R.V., 589
- FOORD, E.E., 679
- Force of crystallization, in diagenetic volume-for-volume replacement, 135
- FOY, H., 615
- Fractionation, of *REE* in fine-grained sediments, 533
- FRANCIS, J.G., 59
- FRIEDMAN, G.M., 401
- FRITSCH, E., 681
- Gabbroic rocks, from the *Mingora* ophiolitic mélange, *Pakistan*, 553
- GAINES, R.V., 271
- Galena, HRTEM study of defects in silver-doped-, 455
- Galway granite, compositional range of Mn-garnets in, 163
- GASPAR, J.C., 409
- GAUTHIER, M., 579
- GEDULIN, B., 425
- GIBSON, S.A., 357
- GIESTER, G., 663
- GILAT, A., 315
- Gobbinsite, from Maheramorne Quarry, *Northern Ireland*, 615
- Gold, from *Minas Gerais, Brazil*, 579; from *southern Israel*, 315
- GOODWIN, M., 671
- Granulite-eclogite facies, metamorphism of basic supracrustal rocks in the Precambrian shield of *South India*, 97
- GREW, E.S., 285
- GREY, I.E., 597
- GRICE, J.D., 333
- GRIFFIN, W.L., 247
- GROAT, L.A., 271
- Grossular, -garnet in a rodingite from Botswana, 375
- Growth history, of doubly-terminated natural alpha quartz crystals, 87
- GUO, J., 247
- HALICZ, L., 315
- HALL, A.J., 486
- Halogen, -rich rocks from *China*, implications for ore-forming processes, 543
- Hancockite, from *Sweden*, 174
- HARLEY, S.L., 259
- HARRIS, D.C., 479
- HARRIS, J.W., 490
- HARTE, B., 490
- Hastingsite, from *Antarctica*, 615
- Hawaiian basalt, hollandite in, 589
- HAWTHORNE, F.C., 271
- HENDERSON, C.M.B., 185, 515
- HENMI, C., 279
- HERD, D.A., 39
- HIRAMA, T., 649
- Hollandite, in Hawaiian basalt, 589
- HOLSTAM, D., 172
- HOOPER, J.J., 339, 513
- HRTEM, a study of defects in silver-doped galena, 455
- HUGHES, J.M., 493
- Hyalophane, in Mn-rich iron formation from the *USA*, 387
- Hyalotekite, in reedmergnerite-bearing peralkaline pegmatite, from *Tajikistan* and in Mn skarn in *Sweden*, 285
- Hydrogen ordering, of schultenite, 629
- Ilmenite, replaced by pyrite or carbonate in phlogopitites, 409
- INDIA, granulite-eclogite facies metamorphism of basic supracrustal rocks, 97; *Wagholi*, thermal behaviour of cavansite from, 501
- Infrared absorption study, of mc Alpineite, a new mineral, 417
- Infrared spectroscopy, a method for distinguishing between pseudomalachite and its polymorphs reichenbachite and ludjibaite, 449
- International Mineralogical Association, 687
- Iowaite, a re-investigation, 79
- IRELAND, Galway, compositional range of Mn-garnets in the Galway granite, 163

- Iron-bearing minerals, redox processes in the evolution of chondrite-bearing iron-bearing minerals, 151
- Iron-formation, hyalophane from, 387; palladian gold from, 579
- ISHIKAWA, K., 621
- Isotope analysis, of sulphides, with high $\delta^{34}\text{S}$ from *Argyll, Scotland*, 486
- ISRAEL, mineralogy of the near-surface expression of Au-As-Cu mineralization in an arid environment, 315
- ITALY, perrierite-(Ce) from the *Sabatini* volcanic complex, 607
- JACOBS, R.S., 589
- Jacutinga (iron formation), palladian gold from, 579
- JAPAN, Asio Mine, sector growth and symmetry of apatite from, 299; *Fuka*, nifontovite and olshanskyite from, 279; mikasaite, a new mineral from, *Japan*, 649
- JEAL, A.E., 513
- JENSEN, M.C., 417
- JIANG, S.-Y., 543
- Jimthompsonite, a triple chain pyribole, 1
- JONES, G.C., 59, 417
- KAMPATA, D.M., 496
- KAWACHI, Y., 671
- KHARISUN, 635
- Kimberlite, monticellite in, evidence of late-magmatic crystallization, 496
- KISSIN, S.A., 271
- Kleberite, a hydroxilian pseudorutile, 597
- KOJIMA, S., 235
- Kornerupine, from *Australia*, 27
- Kosnarite, an accompanying mineral found with the new mineral, wycheproofite, 635
- KUDOH, Y., 307
- KUMA, K., 425
- KURATA, K., 307
- Kuroko deposits, occurrence of nukundamite in, 235
- KUSACHI, I., 279
- Lamproite, roedderite and chayesite in, 655
- LANG, A.R., 87, 508
- LANGHOF, J., 172
- Lattice perfection, and growth history of doubly-terminated natural alpha quartz crystals, 87
- Layered intrusions, formation of chlor- and fluor-apatite in, 299
- Lead, -rich apatite from *Scotland*, 159
- Lead halides, revised chemical formula for fiedlerite, 69
- Lead oxychlorides, laurionite and mendipite forming under saline conditions, 336
- Lead molybdenum oxychloride, parkinsonite, a new mineral, 59
- Lead chalcogenides, phase relations in the system PbS-PbSe-PbTe, 567
- LEONARDOS, O.H., 357
- Leucoxene, 597
- Lewisian rocks, triple chain pyriboles in, 1
- LI, Y.-H., 543
- LIU, H., 567
- LIVINGSTONE, A., 159
- Loparite, from the Schryburt Lake carbonatite complex, *Canada*, 49
- LOPEZ SOLER, A., 119
- LORENZONI, S., 553
- LOWRY, D., 39
- Ludjibaite, reichenbachite, a polymorph of, 449
- Magma composition, of picritic basalts from *Scotland*, 347
- Magmatic magnesian garnets, in the Galway Granite, *Ireland*, 163
- Magnesian-hastingsite, from *Antarctica*, 615
- MAKEPEACE, A.P.W., 87
- MALYSHEVA, T.V., 151
- MANDARINO, J.A., 687
- Manganate (7 Å and 10 Å), crystal structures of, 425
- Manganese, in sugilite from *South Africa*, 681
- Manganese deposits, hyalophane from, 387
- Manganese silicate rocks, sugilite in, 671
- Manganooan sugilite, from *South Africa*, 679
- MARQUEZ, N., 285
- Mcalpineite, a new mineral from *California*, 417
- MCCONVILLE, P., 486
- MCGUINN, M.D., 21
- MCSWIGGEN, P.L. 387
- Mendipite, a lead oxychloride from *Sweden*, 336
- MERKLE, R.K.W., 223
- MERLINO, S., 69
- Metanováčekite, from *Cornwall*, 513
- Metapelite, boron-free kornerupine from a, 27; — metasomatism at the interface between a calc-silicate and a metapelite, 205
- Metasomatism, in mineralogic reaction zones at a calc-silicate/metapelite interface, 205
- Meteorite, tetrataenite and troilite in, 215
- Mikasaite, a new mineral from *Japan*, 649
- Milarite group, roedderite and chayesite, 655; — sugilite from the, 671
- Mineral matter, behaviour of, during combustion of coal, 119
- Mineralogical nomenclature, pseudorutile, 597
- MINGUEZ, J.M., 135
- MITCHELL, J.G., 357
- MIURA, H., 649
- Mn skarn, hyalotekite from, 285
- Mn-garnets, compositional range of, in the Galway granite, *Ireland*, 163

- MOGESSIE, A., 375
 MOLIN, G., 143, 325
 Monticellite, evidence of late-magmatic crystallization, 496
 MOORE, M., 87
 MOREY, G.B., 387
 Mössbauer study, of redox processes in the evolution of chondrites, 151
 MOTTANA, A., 607
 MUKHOPADHYAY, B., 97
 MURAD, E., 641
- Nagyagite, (As-rich) a possible new mineral species from *Romania*, 473; —new data for, 479
 New mineral, effenbergerite, from *South Africa*, 663; —mcalpineite, from the USA, 417; —mikasaite, from *Japan*, 649; —parkinsonite, from the UK, 59; —schwermannite, from *Finland*, 641; —wycheproofite, from *Australia*, 635
 New minerals, approved by the IMA Commission on New Minerals and Mineral Names, 687
 Nifontovite, from *Japan*, 279
 NIIDA, K., 649
 NISIDOH, H., 307
 NIXON, P.H., 496
 Nomenclature, of pseudorutile, 597
 Non-faceted growth, of diamond, 508
 NORTHERN IRELAND, gobbinsite from Magheramorne Quarry, 615
 NORWAY, *Sulitjelma* post-recrystallization phenomena in metamorphosed stratabound sulphide ores: a comment, 482
 Nováčekite, from *Cornwall*, 513
 Nucleation kinetics, in the identification of triple chain pyriboles, 1
 Nukundamite, thermodynamic prediction on the stability of, 235
 NYSTEN, P., 168
- O'REILLY, S.Y., 247
 OBA, T., 621
 Oil-drilling field, vaterite from, 401
 OLIVO, G.R., 579
 Olshanskyite, from *Japan*, 279
 Ophiolites, from the *Mingora* ophiolitic mélange, *Pakistan*, 553
 Optical anomaly, of sector growth in apatite, 299
 Order-disorder structures, for fiedlerite, 69
 Orthopyroxene, crystal chemistry and intracrystalline relationships of orthopyroxene in a suite of high pressure ultramafic nodules from *Australia*, 325
 OWEN, J.V., 205
- PAAR, W.H., 79
 PAKISTAN, plagiogranites, gabbroic rocks, albitites and ophiolites from, 553
 Palladium, from *Minas Gerais, Brazil*, 579
 PALMER, M.R., 543
 PAPLAWSKY, W., 425
 Parkinsonite, a new mineral from *Somerset, England*, 59
 PARODI, G.C., 607
 PARR, J., 461
 PARSONS, I., 516
 PASERO, M., 69
 Pb-Zn deposits, from *Qinling, north western China*, 543
 PbS-PbSe-PbTe system, phase relations in, 567
 PERCHIAZZI, N., 69
 Perovskite, from the Schryburt Lake carbonatite complex, *Canada*, 49
 Perrierite-(Ce), in a partially melted sapphirine granulite from *Antarctica*, 259
 Perrierite-(Ce), from the Sabatini volcanic complex, *Italy*, 607
 PHADKE, A.V., 501
 Phase relations, in the system PbS-PbSe-PbTe, 567
 Phase transition, an EXAFS study of cation site distortions through the *P2/c-P1* phase transitions in a synthetic solid solution, 185; —in a strontium feldspar, 21; —of schultenite, 629
 Picritic basalts, evidence for parental magma compositions, *Skye, Scotland*, 347
 Pinnacles deposit, preservation of colloform banding in pyrite in the, 461
 Plagiogranites, from the *Mingora* ophiolitic mélange, *Pakistan*, 553
 PLATT, R.G., 49
 PLIMER, I.R., 505
 Polarized absorbance spectrum, of quartz, 601
 POPPI, L., 655
 Potassium, potassic diatreme: a possible hypabyssal equivalent of the ultramafic alkaline volcanics, 357
 POWELL, D.W., 505
 Precambrian, granulite-eclogite facies metamorphism of basic supracrustal rocks in the Precambrian shield of *South India*, 97
 Priderite, composition of, in phlogopitites from *Brazil*, 409
 PRING, A., 455, 635
 PRITCHARD, R.G., 79
 Proarizonite, 597
 Pseudomalachite, reichenbachite, a polymorph of, 449
 Psuedorutile, revalidated, 597
 Pulsed single crystal neutron diffraction, in structural studies of schultenite, 629
 PUTNIS, A., 271
 Pyriboles, triple chain, in Lewisian ultramafic rocks, 1
 Pyrite, thermodynamic prediction on the stability

- of, 235
 Pyrite, preservation of colloform banding in, 461
 Pyroxene, cooling history of chondrites from the Fe²⁺-Mg intracrystalline ordering in, 143
 Quartz, lattice perfection and growth history of doubly-terminated natural alpha crystals of, 87
 Quartz, absorption coefficients of overtone and combination modes of, 601
 QUEROL, X., 119
 RAMMLMAIR, D., 375
 RAUDSEPP, M., 607
 Reaction zone, at a calc-silicate/metapelite interface, 205
 REDFERN, S.A.T., 21
 Redox processes, in the evolution of chondrites, 151
 REE, in fine-grained sediments, 533
 Reflectance data, of mc Alpineite, a new mineral, 417
 Reichenbachite, from *Cornwall* and *Portugal*, 449
 RIECK, B., 663
 Rietveld refinement, in the determination of the crystal structure of gobbinsite, 615
 ROBERTS, A.C., 417, 479
 Rodingite, occurrence of zoned uvarovite-grossular garnet in, 375
 Roedderite, in lamproites from *Spain*, 655
 ROMANIA, Sacarimb, arsenian nagyagite a possible new mineral species, 473, new data for nagyagite, 479
 ROUSE, R.C., 285
 RUBIN, A.E., 215
 RYBACK, G., 339, 449
 SALEMINK, J., 496
 Sanmartinite, an EXAFS study of cation site distortions in, 185
 Sapphire, from *Thailand*, 247
 Scapolite-biotite rocks, (halogen-rich) from *China*, implications for the ore forming processes, 543
 SCHOFIELD, P.F., 185
 Schultenite, structural studies of, 629
 SCHULTZ, D.J., 401
 Schwertmannite, a new mineral from *Finland*, 641
 SCOTLAND, *Argyll*, sulphides, with high $\delta^{34}\text{S}$ from, 486; bismuth sulphosalts from within quartz veining, 39; picritic basalts from the Palaeocene lava field of *west-central Skye*, 347; *Strathclyde*, lead-rich apatite from, 159
 SCOTT, K.M., 336
 Sector growth, of apatite from *Japan*, 299
 SHIGLEY, J.E., 679, 681
 SHINODA, K., 601
 SHIRAIISHI, K., 621
 SHIRAV, M., 315
 Silver, HRTEM study of defects in silver-doped-galena, 455
 SIMON, G., 473
 Skarn, nifontovite and olshanskyite from, 279
 SKOGBY, H., 168
 Sodic calcic amphibole, from *Sweden*, 168
 Sonolite, crystal structure refinement of, 333
 SOUTH AFRICA, Bushveld Complex, apatite in layered intrusions in, 299; —variation of cooperite, braggite and vysotskite from, 223; colour of sugilite from the Wessels Mine, 681; effenbergerite, a new mineral from, the *Kalahari* manganese field in, 663; managanooan sugilite from Wessels Mine, 679; Palabora Mine, *Transvaal*, iowaite from, 79
 SPAIN, behaviour of mineral matter during combustion of coal from the *Teruel Mining District*, 119; roedderite and chayasite from *Cancarix*, 655
 Spinel, inclusion in a sapphire from *Thailand*, 247
 Spinel Iherzolite, crystal chemistry of, in a suite of high pressure ultramafic nodules from *Australia*, 325
 STANLEY, C.J., 39, 59, 479
 Staringite, discredited, 271
 STEPHENS, W.E., 39
 STIMPFL, M., 325
 Strontium feldspar, ferro-elastic phase transition of, 21
 SU, SHU-CHUN, 285
 Subsilicic magnesian-hastingsite, from *Antarctica*, 615
 Sugilite, in manganese silicate rocks from *Australia*, 671
 Sugilite, causes of purple and pink colours in, 681
 Sulphide ores, post-recrystallization phenomena in metamorphosed stratabound sulphide ores, 482
 Sulphides, with high $\delta^{34}\text{S}$ from *Argyll, Scotland*, 486
 SUZUKI, M., 621
 SWEDEN, *Filipstad*, manganese ferro-ferri winchite from, 168; *Jakobsberg*, hancockite from, 174; *Långban*, hyalotekite in reedmergnerite-bearing peralkaline pegmatite from, 285
 SYMES, R.F., 59
 Ta/Nb oxide minerals, 271
 TAGGART, J.E., 679
 TAJIKISTAN, *Dara-i-Pioz*, hyalotekite in reedmergnerite-bearing peralkaline pegmatite from, 285
 Tellurite, choloalite a rare secondary double of, 505
 TEMPLE, J.T., 533
 Tetrataenite, in the Jelica meteorite, 215
 THAILAND, *Bo-Ploi*, a cobalt-rich spinel inclusion in a sapphire from, 247
 Thermal behaviour, of cavansite from *India*, 501

- Thermodynamic prediction, on the stability of nukundamite + chalcopyrite and bornite + pyrite assemblages, 235
- Thermodynamics, in the system PbS-PbSe-PbTe, 567
- Thickness-determination, of quartz thin sections, 601
- THOMAS, R.G., 505
- THOMPSON, R.N., 357
- Ti-*REE*-silicate, perrierite-(Ce) from *Italy*, 607
- Trace element, mobility of, in the reaction zone between a calc-silicate and metapelite, 205
- Trace element mobilization, in Hawaiian basalt, 589
- Transitional granulite-eclogite facies metamorphism, of basic supracrustal rocks, *South India*, 97
- Transmission electron microscopy, in the discreditation of staurolite, 271
- Transitional granulite-eclogite facies metamorphism of basic supracrustal rocks, *South India*, 97
- TRIBAUDINO, M., 143
- Triple chain pyriboles, in Lewisian ultramafic rocks, 1
- Troilite, attached to a fragment of tetraenaite in the Jelica meteorite, 215
- TURNER, S.E., 357
- UENO, T., 235
- UG-2 (Bushveld Complex), variation of cooperite, braggite and vysotskite from, 223
- USA, *California* and *Utah*, mc Alpineite, a new mineral from, 417; *Minnesota*, Cuyuna Iron Range, hyalphanite from, 387; *New Jersey*, crystal structure refinement of sonolite, 333
- USUI, A., 425
- Uvarovite, -garnet in a rodingite from *Botswana*, 375
- Vanadium mineral, cavansite, 501
- Vaterite (CaCO₃), precipitation of, 401
- VENTURA (DELLA), G., 607
- VINCE, D., 671
- VERRYN, S.M.C., 223
- Volume-for-volume replacement, force of crystallization and depression of solution, 135
- VON KNORRING, O., obituary, 693
- VRY, J.K., 27
- Vysotskite, variation of, from the Bushveld Complex, 223
- WALSH, J.N., 533
- WANG, N., 29
- WATANABE, T., 307
- WATT, G.R., 490
- WATTS, J.A., 597
- WHITWORTH, M.P., 163
- WILLIAMS, P.A., 505
- WILLIAMS, T.B., 455
- WILLIAMS, R.S., 417
- WILLIAMSON, I.T., 347
- WILSON, C.C., 629
- Wycheproofite, a new hydrated sodium aluminium zirconium phosphate from *Australia*, 635
- XUE, C.-J., 543
- X-ray diffraction, in the examination of the structures of 7 Å and 10 Å manganates substituted by mono- and divalent cations, 425; —in the study of the behaviour of coal during the combustion of coal, 119; —of bismuth sulphosalts within quartz veining in the Loch Shin monzogranite, *Scotland*, 39
- X-ray topography, in the examination of lattice perfection and growth history of doubly-terminated natural alpha quartz crystals, 87; —of an unusual octahedral diamond, 508
- YATES, M.G., 285
- Yttrium, in garnets from the Galway granite, *Ireland*, 163
- YUNXIANG, N., 493
- ZAIRE, *Gwena*, monticellite in the Gwena kimberlite: evidence of late-magmatic crystallization, 496
- ZAMBIA, *Nkombwa Hill*, high-precision crystal structure refinement of daqingshanite-(Ce) from, 493
- Zeolite, gobbinsite, from *Northern Ireland*, 615
- Zirconium, -rich non-metamict perrierite-(Ce) from holocrystalline ejecta, *Italy*, 607; — -phosphate, wycheproofite, 635
- Zirconolite, in a partially melted sapphirine granulite from *Antarctica*, 259