

INDEX, VOLUME 64, 1979*

| | | | | | |
|--|-------------------|--------------------------------------|--------------------|--|----------|
| Aggrilite, structure | 563 | Analyses, cont. | | AUTIO, L.K. see CHERNOSKY, J.V.JR. | 294 |
| AHLRICHS, J.L. see VANCOYOC, G.E. | 219 | omphacite | 103 | Axinite, composition and | |
| AKIMOTO, S. see HIRUCHI, H. | 593 | olivine | 253, 521, 538, 547 | properties | 635 |
| Al_2O_5 polymorphs, high-temperature | | orthopyroxene | 538 | | |
| crystal chemistry | 573 | paragonite | 730 | | |
| ALBERTI, A.: Possible 4-connected | | peristerite | 1273 | | |
| frameworks with 4-4-1 unit | | perovskite | 547 | | |
| found in heulandite, stilbite, | | phengite | 334 | Bahianite, new mineral (abstr) | 464 |
| brewsterite, and scapolite | 1188 | pigerite | 257, 521, 547 | BALDASARI, A. and J.A. SPEER: | |
| Albite | | pimelite | 618 | Witherite composition, physical | |
| chess-board twinned | 329 | pseudoleucite | 734 | properties, and genesis | 742 |
| structural study | 652 | pumppellyite | 10 | Baratovite, structure | 383 |
| Albit-anorthite, in metamorphic | | pyrite | 137 | BARTON, P.B. JR., review of <i>Time-</i> | |
| rocks | 1294 | pyroxenes | 254, 859, 869 | <i>and Strata-Bound Ore Deposits</i> | |
| Aleksite, new mineral (abstr) | 652 | ravumite | 777 | (Klemm and Schneider) | 933 |
| Alkali feldspar | | rutile | 146 | Bartonite, new mineral (abstr) | 241 |
| coherent solvus | 1063 | schaferzomite | 1233 | Basalt-andesite-rhyolite- H_2O , | |
| order-disorder paths | 66 | schoderite | 717 | phase relationships | 489 |
| Altmarkite, new mineral (abstr) | 652 | semencovite | 205 | Basaltic rocks, zeolite facies | |
| Amphibole | | spinel | 258, 549 | metamorphism | 1 |
| analyses | 26, 110 | staurolite | 740 | Basalts | |
| composition in metamorphic | | stoiberite | 942 | classification | 436 |
| rocks | 1295 | thadeuite | 360 | xenolith-bearing | 249 |
| Mössbauer spectra | 109 | tourmaline, vanadian | 789 | BASOVA, G.V. see KAZACHENKO, V.T. | 432 |
| Analbite-mon albite phase | | veatchite-A | 364 | BASS, J.D. and C.B. SCALAR: The | |
| transition | 409 | versiliaite | 1233 | stability of trolleite and the | |
| Analcime, crystallization from | | vesuvianite | 368 | $Al_2O_3-AlPO_4-H_2O$ phase diagram | 1173 |
| solution | 172 | wairakite | 995 | BAUMINGER, E.R. see ROZENSON, I. | 893 |
| Analyses, chemical | | witherite | 743 | Bazirite, new mineral (abstr) | 241 |
| albite | 331 | yttromicrolite | 891 | BECKINSALE, R.D. see MATTHEWS, A. | 232 |
| amphibole | 26, 110, 257, 538 | Andalusite, structure | 573 | BENCE, A.E. see SCHWEITZER, E.L. | 501 |
| apuanite | 1233 | ANDRAWES, F.F. and E.K. GIBSON, JR.: | | Berlinite, formation from | |
| armangite | 749 | Release and analysis of gases | | trolleite | 1175 |
| axinite | 639 | from geological samples | 453 | BERNSTEIN, L.R.: Coloring | |
| basaltic glass | 10 | Anorthite | | mechanisms in celestite | 160 |
| basalts | 3, 259, 506, 954 | thermodynamics of melting | 77 | Bilibinskite, new mineral (abstr) | 652 |
| biotite | 157, 538, 740 | high-T heat capacity | 86 | Biopyriboles, order and disorder in | |
| burckhardtite | 355 | Antarctica, garnet | 269 | | 687 |
| carrollite | 137 | Anthophyllite | | Biotite | |
| cattierite | 137 | stability | 294, 809 | barian-titanian | 156 |
| celestite | 161 | transmission electron | | sulfidation of | 304 |
| chevkinite | 722 | microscopy | 687 | Biotite-pyrrhotite equilibria | 312 |
| clinohypersthene | 133 | Apatite, free energy | 626 | BIRNIE, R.W. and J.M. HUGHES: | |
| clinopyroxene | 25, 505, 521, 538 | APPELO, C.A.J.: Layer deformation | | Stoiberite, a new copper vana- | |
| chlorite | 334 | and crystal energy of micas and | | date from El Salvador | 941 |
| clintonite | 521 | related minerals II | 424 | BISH, D.L. and R.S. HORSEY, R.E.: | |
| cordierite | 740 | Apuanite, new mineral | 1230 | NEWNHAM: Acentricity in the | |
| cryptoperthite | 1273 | ARAKI, T. see KEEGAN, T.D. | 1243 | micas: an optical second | |
| cuproartinite | 889 | , see MOORE, P.B. | 390, 587, 748 | harmonic study | 1052 |
| cuprohydro-magnesite | 888 | ARCULUS, R.J.: Implications of | | , see BRINDLEY, G.W. | 615 |
| davidite | 1012 | pressure-dependent compressibi- | | BLENCOE, J.G.: The use of thermo- | |
| desautelsite | 129 | lities of silicate melts | 1075 | dynamic excess functions in the | |
| diaspore | 1081 | : Silica activity and the | | Nernst distribution law: | |
| djerfisherite | 778 | classification of alkalic and | | discussion | 1122 |
| eclogites | 20 | tholeiitic basalts | 436 | BLOSS, F.D., review of <i>Microscope</i> | |
| ellisite | 701 | Arizona | | Photometry (Piller) | 934 |
| ferridravite | 947 | basalts, xenolith-bearing | 249 | BLOUNT, A.M. and A.H. VASSILIOU: | |
| gageite | 1057 | davidite | 1010 | A new method of reducing pre- | |
| garnets | 23, 271, 548, 740 | Arkansas | | ferred orientation in diffracto- | |
| hercynite, zincian | 737 | diamond | 1059 | meter samples | 922 |
| hornblende | 960 | schoderite | 713 | Boehmite, exsolution in corundum | 1300 |
| hypersthene | 133 | Armanite, structure | 748 | BOETTCHER, A.L.: Experimental | |
| ilmenite | 146, 258 | ARNBT, N.T. and M.E. FLEET: Stable | | determination of univariant | |
| kaersutite | 257 | and metastable pyroxene crystal- | | equilibria using divariant | |
| kerolite | 618 | lization in layered komatite | | solid-solution assemblages: a | |
| K-feldspar | 913 | lava flows | 856 | discussion | 926 |
| kilicite | 709 | Arsenopaladdinite, new data | | Bogdanovite, new mineral (abstr) | 1329 |
| ktensite | 447 | (abstr) | 658 | Bohdanowiczite, new mineral | |
| lamprophyres | 990 | Arsenuranopspatite, new mineral | | (abstr) | 1333 |
| lawsonbauerite | 952 | (abstr) | 465 | Bokite, Nevada | 720 |
| magnetite | 258 | Augelite, free energy | 626 | Bolivia, ferridravite | 945 |
| magnussonite | 391 | Australia | | Boyleite, new mineral (abstr) | 241, 464 |
| margarite | 730 | buchite | 131 | Brazil, pseudoleucite | 733 |
| metarodingites | 20 | clinohypersthene | 131 | Brenkit, new mineral (abstr) | 241 |
| montmorillonites | 832 | hypersthene | 131 | Brewsterite, structure | 1188 |
| muscovite | 730 | K-feldspar megacrysts | 906 | BRINDLEY, G.W., review of <i>Clays</i> | |
| nigerite-24R | 1257 | nigerite-24R | 1255 | and Clay Minerals of Japan | |
| | | | | (Sudo and Shimoda) | 660 |

| | | | | | |
|---|---------------------|--|---|--|------|
| BRINDLEY, G.W., cont. | | Chesterite, transmission electron microscopy | 687 | Cuprohydromagnesite, new mineral | 886 |
| review of <i>Genese des Kaolins</i> (Störr) | | | | CuS_2 , structure | 1265 |
| , and D.L. BISH, H.-M. WAN: | 938 | CHESTERMAN, C.W.: Memorial of Ian Campbell | 669 | Czamanske, G.K. and R.C. ERD, | |
| Compositions, structures, and properties of nickel-containing minerals in the kerolite-pimelite series | | Chevkinite, California | 721 | M.N. SOKOLOVA, M.G. DOBROVOL'-SKAYA, M.T. DMITRIEVA: New data on rasvumite and djerfisherite | |
| , and S. YAMANAKA: A study of hydroxy-chromium montmorillonites | 615 | CHIPMAN, D.W. see WEAVER, J.S. | 604 | | 776 |
| , and S. KIKKAWA: A crystal-chemical study of Mg,Al and Ni,Al hydroxy-perchlorates and hydroxy-carbonates | | Chlormanasite, new mineral (abstr) | 1329 | Dachiardite, Na-analogue (abstr) | 244 |
| BROWN, F.H. see ROGERS, R.J. | | Chromite, in Bushveld Complex | 140 | DAHL, P.S.: Comparative geothermometry in Precambrian metamorphic rocks from southwestern Montana | 1280 |
| BROWN, G.E. JR. see HOCHELLA, M.F. JR. | | Chrompyroaurite, new mineral (abstr) | 1329 | DAL NEGRO, A. see MAZZI, F. | 202 |
| Buchite, Australia | | CHUBAROV, V.M. see KAZACHENKO, V.T. | 432 | Davidite, crystal structure | 1010 |
| Burckhardtite, new mineral | | Chubutite, reviewed | 1303 | DAY, H.W. and H. HALBACH: The stability field of anthophyllite | |
| BURNS, R.G. see FLEISCHER, M. | | CLARK, C.O. and C.P. POOLE, JR., H.A. FARACH: Variable-temperature electron spin resonance of turquoise | 449 | | 248 |
| BUSECK, P.R. see VEBLEN, D.R. | | 131 Clinohypersthene, Australia | 131 | DALTON, P.E.: Memorial of Leo Neal Yedlin | 674 |
| Bushveld Complex, Ti-bearing oxides | | 355 Clinopyroxene analyses | 25 | Desautelsite, new mineral | 127 |
| BUTLER, J.C.: Trends in ternary petrologic variation diagrams-fact or fantasy? | 140 | 687 coherent solvus from deep-sea basalts | 1063 | Deweylite, new data (abstr) | 244 |
| | 1115 | Clintonite, in marble Cobalt-cobalt oxide buffer Cobalt-frobergite, new mineral (abstr) | 501 | Diamonds, inclusions in | 1059 |
| CABRI, L.J. see FLEISCHER, M. California | 1329 | Coesite-quartz equilibrium Coesite-stishovite equilibrium COONS, W.E. and J.R. HOLLOWAY: Cobaltous oxide as a chemical analogue for ferrous iron in experimental petrology | 519 | Diaspore, thermodynamic data | 1080 |
| albite | | 1329 Cordierite, high-temperature crystal chemistry | 224 | DICKSON, F.W. and A.S. RADTKE, J.A. PETERSON: Ellisite, a new mineral from the Carlin gold deposit | |
| chevkinitite | | 721 Corundum | 1097 | | 701 |
| djerfisherite | | 776 boehmite exsolution in high-T heat capacity | 337 | , see SEYFRIED, W.E. JR. | 646 |
| hercynite, zincian | | 728 CRAIG, J.R., review of <i>Atlas des Mineraux Metalliques</i> (Picot and Johan) | 1300 | Differential thermal analysis | |
| hungchaoite | | 865 | 86 | Cs-di-octahedral mica | 1186 |
| margarite | | 776 | | hungchaoite | 374 |
| paragonite | | , and D.J. VAUGHAN: Cobalt-bearing sulfide assemblages from the Shinkolobwe deposit | | irradiated materials | 1131 |
| pyroxenes in ophiolite | 367 | , see TSO, J.L. | | veatchite-A | 362 |
| rasvumite | | Crandallite, free energy | | Djerfisherite, new data | 776 |
| tourmaline, vanadian | | 140 CRESSEY, G. see SCHMID, R. | | DMITRIEVA, M.T. see CZAMANSKE, G.K. | 776 |
| vesuvianite | | 669 Cristobalite, heat capacity | | DOBROVOL'SKAYA, M.G. see CZAMANSKE, G.K. | |
| CAMERON, E.N.: Titanium-bearing oxide minerals of the Bushveld Complex | | 652 CROOK, W.W. III: Yttromicrolite, a new mineral, and a redefinition of hjelmitte | 136 | Donnayite, new mineral (abstr) | 653 |
| Campbell, I., memorial of Canavesite, new mineral (abstr) | | 102 | 626 Drogomansite = kasilite (abstr) | 1334 | |
| Cannizzarite, new data (abstr) | | , and S.G. OSWALD: New data on cerian vesuvianite | 1018 | DUFFY, C. and H.J. GREENWOOD: Phase equilibria in the system $\text{MgO}-\text{MgF}_2-\text{SiO}_2-\text{H}_2\text{O}$ | 1156 |
| CARPENTER, M.A.: Omphacites from Greece, Turkey, and Guatemala | | | 890 DUNN, P.J.: The chemical composition of gageite | 1056 | |
| Carrollite, Katanga | | | 367 | , and D.R. PEACOR, T.D. PALMER: Desautelsite, a new mineral of the pyroaurite group | 127 |
| CATTI, M. and M. FRANCHINI-ANGELA: Krautite: crystal structure, hydrogen bonding and relations with haidingerite and pharmacosite | | | 1272 | , and B.D. STURMAN: Kolicite, a new manganese zinc silicate arsenate | 708 |
| Cattierite, Katanga | 1248 | 136 baratovite | 748 | , , and : Lawson- | |
| Celestite, coloring mechanisms in Černýite, new mineral (abstr) | 160 | 160 CuS ₂ | 383 | bauerite, a new mineral, and new data for torreyite | 949 |
| Cesbronite, new mineral (abstr) | 653 | 653 davidite | 1265 | 1010 | |
| Chabourneite, new mineral (abstr) | 242 | 242 hilgardite | 187 | , , and : Paulmoore- | |
| Chalcophanite, magnesium analogue | 1227 | Köttigite | 376 | ite, a new lead arsenite mineral | 352 |
| Chalcothallite, new data (abstr) | 658 | krautite | 1248 | | 945 |
| Changbaiite, new mineral (abstr) | 242 | magnussonite | 390 | , see WALENTA, K. | |
| CHAO, G.Y. see FLEISCHER, M. | | microcline | 402 | | |
| | 241, 464, 652, 1329 | nickel and iron silicate spinels | 1002 | | |
| Chemical analyses, see Analyses, chemical | | nigerite-24R | 1265 | | |
| CHENEY, J.T. see GUIDOTTI, C.V. | 728 | Schafarzikite | 1235 | EBERL, D.: Synthesis of pyrophyllite polytypes and mixed layers | |
| CHERNOSKY, J.V. JR. and L.K. AUTIO: The stability of anthophyllite in the presence of quartz | 294 | semenovite | 202 | | 1091 |
| CHERRY, M.E. and L.T. TREMBATH: Order-disorder paths of alkali feldspars | | senegalite | 1243 | EBERLEIN, G.D. see ERD, R.C. | 369 |
| | 66 | tourmaline | 788 | Eclogite-metadringite suite, Switzerland | 15 |
| | | versiliaite | 1235 | | |
| | | wairakite | 993 | EDGAR, A.D. see VALENCA, J.G. | 733 |
| | | zircon | 196 | | |
| | | Cuproartinite, new mineral | 886 | | |

| | | | | | |
|---|------|--|------------|--|------|
| EGGLER, D.H. and A.A.KADIK: The system $\text{NaAlSi}_3\text{O}_8\text{H}_2\text{O}-\text{CO}_2$ to 20 kbar pressure I | 1036 | Free energy decarbonation reactions phosphate minerals | 288 626 | Griphite, new data (abstr) | 1333 |
| _____, and I.KUSHIRO, J.R. | | FREEBORN, W.P. see KOMARENKO, S. | 650 | Grossular, high-T heat capacity | 86 |
| HOLLOWAY: Free energies of decarbonation reactions at mantle pressures | | Friedrichite, new mineral (abstr) | 654 | Guatemala, omphacite | 102 |
| EGGLETON, R.A.: The ordering path for igneous K-feldspar megacrysts | 288 | Frigidite, discredited (abstr) | 1334 | GUIDOTTI, C.V. and J.L. POST, J.T. | |
| ELLIS, D.E. and P.J. WYLLIE: | | FRONDEL, C.: Crystalline silicate hydrates from leached silicates | 799 | CHENEY: Margarite pseudomorphs after chiaxolite | 728 |
| Carbonation, hydration, and melting relations in the system $\text{MgO}-\text{H}_2\text{O}-\text{CO}_2$ | 32 | | 935 | GUNTER, W.D. see MYERS, J. | 224 |
| _____: Hydration and melting in the system $\text{MgO}-\text{SiO}_2-\text{H}_2\text{O}$ | 41 | FUDALI, R.F., review of <i>Geochemistry</i> (Brownlow) | | | |
| Ellisite, new mineral | 701 | Gabbro | 527 | HAAKER, R.F. and R.C. EWING: | |
| El Salvador, stoiberite | 941 | Oregon | 531 | Differential thermal analysis of some irradiated materials: | |
| Emeleusite, new mineral (abstr) | 242 | South Carolina | 844 | discussion | 1131 |
| ERD, R.C. and J.F. MCALLISTER, | | Wisconsin | 1056 | HAGA, N. see TAKEUCHI, Y. | 993 |
| G.D. EBERLEIN: New data on hunghachite | 369 | Gageite, chemical composition | | HALBACH, H. see DAY, H.W. | 809 |
| _____, see CZAMANSKE, G.K. | 776 | GAINES, R.V. and P.B. LEAVENS, J.A. NELEN: Burckhardtite, a new mineral | 355 | HARKER, R.I., review of <i>Natural Zeolites: Occurrences, Properties, Use</i> (Sand and Mumpton eds.) | 938 |
| Errata | 1334 | GALLI, E. see TAKEUCHI, Y. | 993 | HAZEN, R.M. and L.W. FINGER: | |
| Eskimoite, new mineral (abstr) | 243 | Garavellite, new mineral (abstr) | 1329 | Crystal structure and compressibility of zircon | 196 |
| ESSENNE, E.J. see PERKINS, D. III | 1080 | Garnet | | _____, see FINGER, L.W. | 1002 |
| Ethiopia, mitridatite | 169 | analyses | 23 | Heat capacity | |
| EVANS, B.W. and V. TROMMSDORFF, W. RICHTER: Petrology of an eclogite-metaroddingite suite at Cima di Gagnone, Ticino, Switzerland | 776 | analyses, X-ray data | 270 | of minerals | 86 |
| EVANS, S.H. JR. and W.P. NASH: Petrogenesis of xenolith-bearing basalts from southeastern Arizona | 15 | Garnet peridotite, trace-element partitioning | | tridymite and cristobalite | 1018 |
| EWING, R.C. see HAAKER, R.F. | 249 | Gases, from geological samples | 274 | HELLER-KALLAI, L. see ROZENSON, I. | 893 |
| _____, see MANSKER, W.L. | 1131 | GATEHOUSE, B.M. and I.E. GREY, P.R. KELLY: The crystal structure of davideite | 453 | HELZ, R.T.: alkali exchange between hornblende and melt | 953 |
| FARACH, H.A. see CLARK, C.O. | 449 | _____, see GREY, I.E. | 1012 | Hematite-ilmenite, coherent solvus | 1063 |
| FAUST, G.T.: Memorial of Marjorie Hooker | 670 | Genkinitite, new mineral | 1255 | HEMINGWAY, B.S. see KRUPKA, K.M. | 86 |
| _____, review of <i>Structural Clay Products</i> (Brownell) | 933 | Geobarometry, of metamorphosed calc-silicates and pelites | 654 | HENSEN, B.J. and D.R. GRAY: Clino-hypersthene and hypersthene from a coal fire bichite | 131 |
| FEININGER, T., review of <i>Recursos Minerales de Colombia</i> (Angulo) | 1335 | Georgeite, new mineral (abstr) | 1330 | Hawaii | |
| Ferridravite, new mineral | 945 | Geothermometry, of metamorphic rocks | 874, 1280 | barian-titanian biotite | 156 |
| FERRY, J.M.: A map of chemical potential differences within an outcrop | 966 | GHENT, E.D. and D.B. ROBBINS, M.Z. STOUT: Geothermometry, geobarometry, and fluid compositions of metamorphosed calc-silicates and pelites | 874 | Salt Lake Crater xenoliths | 962 |
| Fersmanite, new data (abstr) | 658 | GOHOSE, S. and C. WAN: Agrellite: a layer structure with silicate tubes | 563 | Hercynite, zinc-rich | 736 |
| FINGER, L.W. and R.M. HAZEN, T.YAGI: Crystal structures and electron densities of nickel and iron silicate spinels | 1002 | _____, Hilgardite, a piezo-electric zeolite-type pentaborate | 187 | Heulandite, structure | 1188 |
| _____, see HAZEN, R.M. | 196 | _____, see WINTER, J.K. | 409, 573 | Hilgardite, structure | 187 |
| FLAMINI, A. and G. GRAZIANI, G. PAGLIUCA: Synthesis of fluoborite | 229 | GIORDINI, A.A. see PANTALEO, N.S. | 1059 | HILL, R.J.: The crystal structure of köttigite | 376 |
| FLEET, M.E. see ARNDT, N.T. | 856 | GIBBS, G.V. see HOCELLA, M.F. JR. | 337 | Hjelmite, redefinition | 890 |
| FLEISCHER, M.: New mineral names | 229 | GIBSON, E.K. JR. see ANDRAWS, F.F. | 453 | HOCELLA, M.F. JR. and G.E. BROWN, JR., F.K. ROSS, G.V. GIBBS: High-temperature crystal chemistry of cordierites | 337 |
| _____, review of <i>The Mineralogy of Pennsylvania</i> (Smith) | 935 | GILBERT, M.C. see TSO, J.L. | 304 | HOGARTH, D.D. see FLEISCHER, M. | 1329 |
| Fluoborite, synthesis | 229 | GILLIES, D.G. see KOISHI, Y. | 211 | HOLLOWAY, J.R. see COONS, W.E. | 1097 |
| FOIT, F.F. JR. and P.E. ROSENBERG: The structure of vanadium-bearing tourmaline | 788 | GLAZNER, A.F. and D.B. MCINTYRE: Computer-aided X-ray diffraction identification of minerals in mixtures | 902 | _____, see EGGLER, D.H. | 288 |
| _____, see ROSENBERG, P.E. | 180 | GOGINENI, S.V. see PANTALEO, N.S. | 1059 | HOLST, N.B.: The use of thermodynamic excess functions in the Nernst distribution law: reply | 1129 |
| Forsterite, calcium content | 824 | GOLDMAN, D.S.: A reevaluation of the Mössbauer spectroscopy of calcic amphiboles | 109 | Hooker, M., memorial of | 670 |
| Framework silicates, classification | 551 | GORDON, P.C. see SEYFRIED, W.E. JR. | 646 | HORIUCHI, H. and N. MORIMOTO, K. YAMAMOTO, S. AKIMOTO: Crystal structure of $2\text{Mg}_2\text{SiO}_4 \cdot 3\text{Mg}(\text{OH})_2$ | 593 |
| FRANCHINI-ANGELA, M. see CATTI, M. 1248 | | GRAZIANI, G. see FLAMINI, A. | 229 | Hornblende, alkali exchange with melt | 953 |
| Franklinite, cation distribution | 599 | GRAY, D.R. see HENSEN, B.J. | 131 | HORSEY, R.S. see BISH, D.L. | 1052 |
| | | Greece, omphacite | 102 | HOVIS, G.L.: A solution calorimetric investigation of Na-K mixing in sanidine-analbite: corrections | 925 |
| | | GREEN, D.H. see JAQUES, A.L. | 1312 | _____, see THOMPSON, J.B. JR. | 57 |
| | | GREENWOOD, H.J. see DUFFY, C. | 1156 | HUEBNER, J.S.: Acceptance of the Mineralogical Society of America Award | 666 |
| | | GREW, E.S.: Al-Si disorder of K-feldspar in crustal xenoliths | 912 | _____, see ROSS, M. | 1133 |
| | | GREY, I.E. and B.M. GATEHOUSE: The crystal structure of nigerite-24R | 1255 | HUGHES, J.M. see BIRNIE, R.W. | 941 |
| | | _____, see GATEHOUSE, B.M. | 1012 | Humite group, Ti,F,OH content | 1027 |
| | | | | Hungchaotite, new data | 369 |
| | | | | Hydrodresserite, new mineral (abstr) | 654 |

| | | | | | |
|---|--|--|---|---|------|
| Hydroxy-perchlorates, crystal chemistry | | KIKKAWA, S. see BRINDLEY, G.W. | 836 | Maine, metamorphosed limestone | 967 |
| hypersthene, Australia | | KIMATA, M.: Properties of synthetic Cs-dioctahedral hydrous mica | 131 | MANDARINO, J.A. see FLEISCHER, M. | 652 |
| Ilmenite | | KING, H.E. JR. and C.T. PREWITT: Structure and symmetry of CuS ₂ (pyrite structure) | 1286 | Manganese dendrites and coatings, mineralogy | 1219 |
| analyses | | KIRCHNER, J.G.: Petrographic significance of a carbonate-rich lamprophyre from South Dakota | 258 | Manganese oxides, mineralogy | 1199 |
| in Bushveld Complex | | KISSIN, S.A. and S.D. SCOTT: Device for the measurement of sulfur fugacity | 140 | Manganhumite, new mineral (abstr) | 243 |
| Infrared spectra | | Kleberite, new mineral (abstr) | 1228 | MANSKER, W.L. and R.C. EWING, K. KEIL: Barian-titanian biotites from Hawaii | 156 |
| aurorite | | Kleemanite, new mineral (abstr) | 1187 | Margarite, pseudomorphs after chiastolite | 728 |
| chalcohanite | | KOISHI, Y. and D.C. GILLIES: Lattice parameters of talc | 620 | Marićite, new mineral (abstr) | 655 |
| Cs-dioctahedral mica | | KOIZUMI, M. see UEDA, S. | 1199 | MASON, B., review of <i>Minerals of New York State</i> (Jensen) | 246 |
| Kerolite | | Kolicite, new mineral | 217 | _____, review of <i>Crystal Structure Data of Inorganic Compounds</i> (Pies and Weiss) | 247 |
| manganese oxides | | KOMARENKO, S. and W.P. FREEBORN, C.A. SMITH: Simple cold-weld sealing of noble-metal tubes | 622 | _____, review of <i>CRC Handbook of Chemistry and Physics</i> (Weast) | 248 |
| palygorskite | | KÖTTIGITE, structure | 1002 | _____, review of <i>Early Mineralogy in Great Britain and Ireland</i> (Campbell Smith) | 660 |
| pimelite | | KRAUTITE, structure | 359 | _____, review of <i>The Wolfson Geochemical Atlas of England and Wales</i> | 662 |
| talc | | KRUPKA, K.M. and R.A. ROBIE, B.S. HEMINGWAY: High-temperature heat capacities | 672 | _____, review of <i>McGraw-Hill Encyclopedia of the Geological Sciences</i> (Lapides, ed.) | 934 |
| Iron silicate spinels, structure | | Ktenasite, Colorado | 1228 | _____, review of <i>Elastic, Piezoelectric, Pyroelectric, Piezo-optic, Electrooptic Constants, and Non-Linear Dielectric Susceptibilities of Crystals</i> (Choy and others) | 936 |
| ISAACS, A. and D.R. PEACOR, W.C. KELLY: Thadeuite, a new mineral | | KUBO, T. see SHIRAKASHI, T. | 994 | _____, review of <i>Rock-Forming Minerals, Vol. 2A, Single-Chain Silicates</i> (Deer, Howie and Zussman) | 936 |
| Ito, J., memorial of | | KULLERUD, G., review of <i>Exploration and Mining Geology</i> (Peters) | 1312 | MATTHEW, A. and R.D. BECKINSALE: Oxygen isotope equilibration systematics | 232 |
| Jadeite glass, Raman spectra | | _____, review of <i>Mineral Chemistry of Metal Sulfides</i> (Vaughn and Craig) | 1335 | MAYNARD, J.B., review of <i>The Chemistry of the Atmosphere and Oceans</i> (Holland) | 246 |
| Japan, wairakite | | KUMBARAS, I.: Veatchite-A, a new modification of veatchite | 687 | MAZZI, F. and L. UNGARETTI, A. DAL NEGRO, O.V. PETERSEN, J.G. | |
| JAQUES, A.L. and D.H. GREEN: Determination of liquid compositions in high-pressure melting of peridotite | | KUSHIRO, I. see EGGLER, D.H. | 1330 | RÖNSBO: Crystal structure of semenovite | 202 |
| JAROSEWICH, E., review of <i>Trace Element Analysis of Geological Materials</i> (Reeves and Brooks) | | Kyanite, structure | 655 | _____, see TAKEUCHI, Y. | 993 |
| Jimthompsonite, transmission electron microscopy | | LASKOWSKI, D.E. see LASKOWSKI, T.E. | 527 | McALLISTER, J.F. see ERD, R.C. | 369 |
| Jixianite, new mineral (abstr) | | LASKOWSKI, T.E. and D.M. SCOTFORD, D.E. LASKOWSKI: Measurement of refractive index in thin section | 1036 | McDOWELL, S.D.: Chevkinitite from the Little Chief Granite porphyry stock, California | 721 |
| Jokokuite, new mineral (abstr) | | LEAVENS, P.B. see GAINES, R.V. | 257 | MCINTYRE, D.B. see GLAZNER, A.F. | 902 |
| JÖRGENSEN, D.B.: Textural banding in igneous rocks: an example from southwestern Oregon | | LEVIEIN, L. and C.T. PREWITT, D.J. WEIDNER: Compression of pyrope | 655 | Mckelveyite, new data (abstr) | 659 |
| KADIK, A.A. see EGGLER, D.H. | | LEWIS, C.F. see OLSEN, E. | 432 | McSWEEN, H.Y. JR. and P.G. NYSTROM, JR.: Mineralogy and petrology of the Dutchmans Creek gabbroic intrusion, South Carolina | 531 |
| Kaersutite, analyses | | Lewistonite, discredited mineral (abstr) | 1330 | MELLINI, M. and S. MERLINO: Versiliaite and apuanite: derivative structures related to schafarzikite | 1235 |
| Kanovaite, new mineral (abstr) | | LIOU, J.G.: Zeolite facies metamorphism of basaltic rocks from the East Taiwan Ophiolite | 1243 | _____, _____, and P. ORLANDI: Versiliaite and apuanite, two new minerals | 1230 |
| KAZACHENKO, V.T. and V.M. CHUBAROV, I.M. ROMANENKO, L.N. VIALSOV, G.V. BASOVA: Ore minerals in a polymetallic deposit of Primorye, U.S.S.R. | | 156, see KESKINEN, M. | 156 | MELTON, C.E. see PANTALEO, N.S. Memorials | 1059 |
| Keckite, new mineral (abstr) | | 1012, see MOORE, D.E. | 359 | Ian Campbell | 669 |
| KEEGAN, T.D. and T. ARAKI, P.B. MOORE: Senegalite, a novel structure type | | Lorettoite, discredited | 615 | Marjorie Hooker | 670 |
| KEIL, K. see MANSKER, W.L. | | LUDINGTON, S.: Thermodynamics of melting of anorthite deduced from phase equilibrium studies | 452 | Jun Ito | 672 |
| KELLY, P.R. see GATEHOUSE, B.M. | | LUMPKIN, G.R. and P. RIBBE: Chemistry and physical properties of axinites | 317 | Leo Neal Yedlin | 674 |
| KLLLY, W.C. see ISAACS, A. | | 912 | MENCHETTI, S. and C. SABELLI: The crystal structure of baratovite | 383 | |
| Kerolite-pimelite series | | 906 | MERLINO, S. see MELLINI, M. | 1230, 1235 | |
| KERRICH, R. and J. STARKEY: Chemical removal of feldspars and layer silicates from quartz-bearing rocks | | 49 | Metahewettite, Nevada | 720 | |
| KESKINEN, M. and J.G. LIOU: Synthesis and stability of Mn-Al piemontite | | 49 | Metamorphism, fluid composition and fluid transfer | 979 | |
| K-feldspar | | 242 | Magnussonite, structure | 390 | |
| Al-Si disorder | | | | | |
| megacrysts, ordering path | | | | | |
| minor and trace elements | | | | | |
| structural state | | | | | |
| Kidwellite, new mineral (abstr) | | | | | |

| | | | | |
|---|---------|-------------------------------------|-----------|--|
| Metarodingites, chemical analyses | 20 | Nernst distribution law | 1122,1129 | New minerals, cont. |
| Mexico | | Nevada | | stibiopearcrite (abstr) 243 |
| burckhardtite | 357 | bokite | 720 | stoiberite 941 |
| chalcophanite | 1227 | cuproartinite | 886 | synchysite-(Nd) (abstr) 658 |
| MEYER, C.E. see VENNUM, W.R. | 268 | cuprohydromagnesite | 886 | tetrakalsilite (abstr) 658 |
| MEYER, H.O.A., review of <i>Geologie du Diamant</i> (Bardet) | 932 | ellisite | 701 | thadeuite 359 |
| Micas | | metahewettite | 720 | tlapalite (abstr) 465 |
| acentricity in | 1052 | NEWBERRY, R.J.J.: Polytypism in | | treasurite (abstr) 243 |
| Cs-diocahedral | 1184 | molybdenite | 758,768 | tucreite (abstr) 465 |
| erroneous analyses | 1311 | New Jersey | | unnamed BaCa ₂ O ₃ (abstr) 1332 |
| lattice deformation and | | kolicite, new mineral | 708 | unnamed Ca carbonate- |
| crystal energy | 424 | lawsonbauerite, new mineral | 949 | silicate (abstr) 658 |
| NMR study | 119 | New Mexico, K-feldspar in xenoliths | | unnamed CaMn ₄ Si ₅ O ₁₅ ·2H ₂ O 244 |
| Millisite, free energy | 626 | New minerals | 912 | unnamed CaZr ₂ Si ₂ O ₇ (abstr) 1332 |
| Mineral identification in mixtures | 902 | aleksite (abstr) | 652 | unnamed Hg-Pb amalgam (abstr) 652 |
| Mineralogical Society of America | | altmarkite (abstr) | 652 | unnamed NaFeS ₂ (OH) (abstr) 241 |
| list of former officers | 682 | apuanite | 1230 | unnamed palladium arsenide (abstr) 1333 |
| list of officers and committees | 685 | arsenuranospathite (abstr) | 465 | unnamed tellurides (abstr) 1332 |
| proceedings, 59th annual | | bahianite (abstr) | 464 | uranospathite (abstr) 465 |
| meeting | 676 | bartonite (abstr) | 241 | versiliaite 1230 |
| Mineralogical Society of America | | bazirite (abstr) | 241 | vikingite (abstr) 243 |
| Award | | bilibinskite (abstr) | 652 | welshite (abstr) 244 |
| Presentation by D.B. Stewart | 665 | bogdanovite (abstr) | 1329 | whiteite (abstr) 465 |
| Acceptance by J.S. Huebner | 666 | boyleite (abstr) | 241,464 | wollastonite-7T (abstr) 658 |
| Minerals, new see New minerals | | brenkite (abstr) | 241 | xiangjiangite (abstr) 466 |
| MITCHELL, R.H. see PLATT, R.G. | 546 | burckhardtite | 355 | yttromicrolite 890 |
| Mitridatite, Ethiopia | 169 | canavesite (abstr) | 652 | NEWNHAM, R.E. see BISH, D.L. 1052 |
| MIURA, Y. and J.C. RUCKLIDGE: Ion | | černýite (abstr) | 653 | NEWTON, M.G. see PANTALEO, N.S. 1059 |
| microprobe analyses of exsolution lamellae in peristerites | | cesbronite (abstr) | 653 | New York, zincian hercynite 736 |
| and cryptoperthites | 1272 | chabourneite (abstr) | 242 | NICKEL, E.H. see ROBINSON, B.W. 1322 |
| Molybdenite | | changbaiite (abstr) | 242 | Nickel partitioning, between |
| polytypism in | 758,768 | chlormanasite (abstr) | 1329 | olivine and silicate melt 1107 |
| rhenium in | 769 | chromopyroaurite (abstr) | 1329 | Nickel silicate spinels, structure |
| Montana | | cobalt-frobergite (abstr) | 242 | 1002 |
| clintonite | 519 | cuprohydromagnesite | 886 | Nigerite-24R, structure 1255 |
| metamorphic rocks | 1280 | cuproartinite | 886 | Nuclear magnetic resonance, |
| Montdotrite, new mineral (abstr) | 1331 | dachardite, Na-analogue (abstr) | 244 | franklinite 599 |
| Montmorillonites, hydroxy-chromium | | desautelsite | 127 | NYSTROM, P.G. JR. see |
| | 830 | donnayite (abstr) | 653 | McSWEEN, H.Y. JR. 531 |
| MOORE, D.E. and J.G. LIOU: | | ellisite | 701 | |
| Chessboard-twinned albite from | | emeleusite (abstr) | 242 | |
| Franciscan metaconglomerates | 329 | eskimoite (abstr) | 243 | |
| MOORE, P.B.: Memorial of Jun Ito | 672 | ferridravite | 945 | |
| , see KEEGAN, T.D. | 1293 | friedrichite (abstr) | 654 | OKAMURA, F.P. see WINTER, J.K. 409 |
| , and T. ARAKI: Magnussonite, manganese arsenite, a fluorite derivative structure | 390 | garavellite (abstr) | 1329 | Olivine |
| , , : Crystal structure of synthetic (NH ₄) ₈ Fe ₃ (PO ₄) ₆ ·6H ₂ O | 587 | genkinite (abstr) | 654 | analyses 253 |
| , , : Armangite, a fluorite derivative structure | 748 | georgeite (abstr) | 1330 | Ni partitioning with melt 1107 |
| MORIMOTO, N. see HORIUCHI, H. | 593 | hydrodresserite (abstr) | 654 | OLMSTEAD, J.F.: Crystallization |
| Mössbauer spectra | | jixianite (abstr) | 1330 | history and textures of the |
| calcic amphiboles | 109 | jokokuite (abstr) | 655 | Rearing Pond gabbro, north-western Wisconsin 844 |
| phyllosilicates | 893 | kanonaite (abstr) | 655 | |
| Muscovite, high-T heat capacity | 86 | keckite (abstr) | 1330 | OLSEN, E. and C.F. LEWIS: |
| Muscovite-chlorite intergrowths | 151 | kidwellite (abstr) | 242 | Ktenasite from Creede 446 |
| MYERS, J. and W.D. GUNTER: Measurement of oxygen fugacity | 224 | kleberite (abstr) | 655 | omeite, new mineral (abstr) 464 |
| MYSEN, B.O.: Nickel partitioning between olivine and silicate melt | 1107 | kleemanite (abstr) | 1331 | Ompacite, cation ordering 102 |
| : Trace-element partitioning between garnet peridotite minerals and water-rich vapor | 274 | kolicite | 708 | Ophiolite, East Taiwan 1 |
| , see SHARMA, S.K. | 779 | lawsonbauerite | 945 | Optical properties |
| NAHON, D. see VIEILLARD, P. | 626 | manganhumite (abstr) | 243 | axinitite 639 |
| NASH, W.P. see EVANS, S.H. JR. | 249 | maridite (abstr) | 655 | burckhardtite 355 |
| NELEN, J.A. see GAINES, R.V. | 355 | montdotrite (abstr) | 1331 | clinohypersthene 132 |
| Nepheline-kaisilitite, coherent solvus | | omeite (abstr) | 464 | cuproartinite 886 |
| | 1063 | orthobrannerite (abstr) | 656 | cuprohydromagnesite 886 |
| | | ourayite (abstr) | 243 | desautelsite 127 |
| | | palladium arsenostannide (abstr) | 1333 | ferridravite 945 |
| | | parakeldyshite (abstr) | 656 | garnet 270 |
| | | paulmooreite | 352 | hungchacite 369 |
| | | penikite (abstr) | 657 | kolicite 709 |
| | | phurcalite (abstr) | 243 | lawsonbauerite 949 |
| | | platarsite (abstr) | 657 | paulmooreite 352 |
| | | queite (abstr) | 1331 | schoderite 713 |
| | | rajite (abstr) | 1331 | thadeuite 359 |
| | | rostite (abstr) | 1331 | tourmaline 180 |
| | | sabatierite (abstr) | 1331 | veatchite 363 |
| | | sasaita (abstr) | 1331 | vesuvianite 367 |
| | | satterlyite (abstr) | 464 | Order-disorder, in alkali feldspars 66 |
| | | sidorenkite (abstr) | 657 | |
| | | | 1332 | ORLANDI, F. see MELLINI, M. 1230 |

| | | |
|---|---|-----------------------------|
| POTTER, R.M. and G.R. ROSSMAN: | Reviews, cont. | |
| The tetravalent manganese oxides | Jensen, D.E.: <i>Minerals of New York State (Mason)</i> | |
| 1199 | Kimberley, M.M. (ed.): <i>Uranium Deposits, Their Mineralogy and Origin</i> (Kullerud) | |
| _____, _____: A magnesium analogue of chalcophanite | Klemm, D.D. and H.J. Schneider (eds.): <i>Time- and Strata-Bound Ore Deposits</i> (Barton) | |
| 1227 | Liebau, F.: <i>Fortschritte auf dem Gebiet der Kristallchemie der Silikate</i> (Pabst) | |
| 886 | Lieber, W.: <i>Menschen, Minen, Mineralien</i> (Sinkanksa) | |
| 367 | Perel'man, A.I.: <i>Geochemistry of Elements in the Supergene Zone (Siegel)</i> | |
| 243 | Peters, W.C.: <i>Exploration and Mining Geology</i> (Kullerud) | |
| 224 | Picot, P. and Z. Johan: <i>Atlas des Mineraux Metalliques</i> (Craig) | |
| 232 | Pies, W. and A. Weiss: <i>Crystal Structure Data of Inorganic Compounds</i> (Mason) | |
| Pyrope, compression of | Piller, H.: <i>Microscope Photometry</i> (Bloss) | |
| Pyrophyllite | Reeves, R.D. and R.R. Brooks: <i>Trace Element Analysis of Geological Materials</i> (Jarosewich) | |
| high-T heat capacity | Smith, R.C. II: <i>The Mineralogy of Pennsylvania</i> (Fleischer) | |
| synthesis | Störr, M. (ed.): <i>Genese des Kaolins</i> (Brindley) | |
| 713 | Sudo, T. and S. Shimoda (eds.): <i>Clay and Clay Minerals of Japan</i> (Brindley) | |
| Pyroxene | van der Marel, H.W. and H. Beutelspacher: <i>Atlas of Infrared Spectroscopy of Clay Minerals and their Admixtures</i> (White) | |
| analyses | Weast, R.C. (ed.): <i>CRC Handbook of Chemistry and Physics, 59th Edition</i> (Mason) | |
| in ophiolite | Wilson, J.L.: <i>Carbonate Facies in Geologic History</i> (Pettijohn) | |
| temperature-composition | The Wolfson Geochemical Atlas of England and Wales (Mason) | |
| relationships | Yoder, H.S. Jr.: <i>Generation of Basaltic Magma</i> (Simkin) | |
| Pyroxene crystallization, in komatiite | Rhode Island | |
| Pyrrhotite-biotite equilibria | chlorite | |
| Quartz-coesite equilibrium | muscovite | |
| Quartz-water, oxygen isotope equilibration | RIBBE, P.H.: The structure of a strained intermediate microcline | |
| Quelite, new mineral (abstr) | _____, Titanium, fluorine, and hydroxyl in the humite minerals | |
| 604 | see LUMPKIN, G.R. | |
| 232 | RICE, J.M.: Petrology of clintonite-bearing marbles in the Boulder aureole, Montana | |
| 1331 | 915 | RICHTER, W. see EVANS, B.W. |
| Radtke, A.S. see DICKSON, F.W. | ROBBINS, D.B. see GHENT, E.D. | |
| Rajite, new mineral (abstr) | ROBIE, R.A. see KRUPKA, K.M. | |
| 49 | ROBINSON, B.W. and E.H. NICKEL: The backscattered-electron/low vacuum mode of SEM operation | |
| Raman spectroscopy, jadeite glass | Roebeling Medal | |
| 657 | Presentation by E-an Zen | |
| Rare-earth element partitioning | Acceptance by J.B. Thompson, Jr. | |
| 86 | ROGERS, R.J. and F.H. BROWN: Authigenic mitridatite | |
| Rasvumite, new data | ROMANENKO, I.M. see KAZACHENKO, V.T. | |
| 1312 | Holland, H.D.: <i>The Chemistry of the Atmosphere and Oceans</i> (Maynard) | |
| Reaction cell, hydrothermal | 432 | |
| Refractive index, measurement in thin section | 246 | RONSBØ, J.G. see MAZZI, F. |
| Reviews | Reviews, cont. | |
| Angulo, R. (ed.): <i>Recursos Minerales de Colombia</i> (Feininger) | Jensen, D.E.: <i>Minerals of New York State (Mason)</i> | |
| Baragar, W.R.A., L.C. Coleman and J.M. Hall (eds.): <i>Volcanic Regimes in Canada</i> (Simkin) | Kimberley, M.M. (ed.): <i>Uranium Deposits, Their Mineralogy and Origin</i> (Kullerud) | |
| Bardet, M.G.: <i>Geologie du Diamant</i> (Meyer) | Klemm, D.D. and H.J. Schneider (eds.): <i>Time- and Strata-Bound Ore Deposits</i> (Barton) | |
| Brownell, W.E.: <i>Structural Clay Products</i> (Faust) | Liebau, F.: <i>Fortschritte auf dem Gebiet der Kristallchemie der Silikate</i> (Pabst) | |
| Brownlow, A.H.: <i>Geochemistry of Fuladi</i>) | Lieber, W.: <i>Menschen, Minen, Mineralien</i> (Sinkanksa) | |
| Campbell Smith, W.: <i>Early Mineralogy in Great Britain and Ireland</i> (Mason) | Perel'man, A.I.: <i>Geochemistry of Elements in the Supergene Zone (Siegel)</i> | |
| Choy, M.M. and others: <i>Elastic, Piezoelectric, Pyroelectric, Electrooptic Constants, and Non-Linear Dielectric Susceptibilities of Crystals</i> (Mason) | Peters, W.C.: <i>Exploration and Mining Geology</i> (Kullerud) | |
| Deer, W.A., R.A. Howie and J. Zussman: <i>Rock-Forming Minerals, Vol. 2A, Single-Chain Silicates</i> (Mason) | Picot, P. and Z. Johan: <i>Atlas des Mineraux Metalliques</i> (Craig) | |
| Dierck, J. and others: <i>Elastic, Piezoelectric, Pyroelectric, Electrooptic Constants, and Non-Linear Dielectric Susceptibilities of Crystals</i> (Mason) | Pies, W. and A. Weiss: <i>Crystal Structure Data of Inorganic Compounds</i> (Mason) | |
| Doyle, J. and others: <i>Elastic, Piezoelectric, Pyroelectric, Electrooptic Constants, and Non-Linear Dielectric Susceptibilities of Crystals</i> (Mason) | Piller, H.: <i>Microscope Photometry</i> (Bloss) | |
| Dunn, J. and others: <i>Elastic, Piezoelectric, Pyroelectric, Electrooptic Constants, and Non-Linear Dielectric Susceptibilities of Crystals</i> (Mason) | Reeves, R.D. and R.R. Brooks: <i>Trace Element Analysis of Geological Materials</i> (Jarosewich) | |
| Elliott, J. and others: <i>Elastic, Piezoelectric, Pyroelectric, Electrooptic Constants, and Non-Linear Dielectric Susceptibilities of Crystals</i> (Mason) | Smith, R.C. II: <i>The Mineralogy of Pennsylvania</i> (Fleischer) | |
| Frost, J. and others: <i>Elastic, Piezoelectric, Pyroelectric, Electrooptic Constants, and Non-Linear Dielectric Susceptibilities of Crystals</i> (Mason) | Störr, M. (ed.): <i>Genese des Kaolins</i> (Brindley) | |
| Gibson, J. and others: <i>Elastic, Piezoelectric, Pyroelectric, Electrooptic Constants, and Non-Linear Dielectric Susceptibilities of Crystals</i> (Mason) | Sudo, T. and S. Shimoda (eds.): <i>Clay and Clay Minerals of Japan</i> (Brindley) | |
| Goodwin, J. and others: <i>Elastic, Piezoelectric, Pyroelectric, Electrooptic Constants, and Non-Linear Dielectric Susceptibilities of Crystals</i> (Mason) | van der Marel, H.W. and H. Beutelspacher: <i>Atlas of Infrared Spectroscopy of Clay Minerals and their Admixtures</i> (White) | |
| Griggs, J. and others: <i>Elastic, Piezoelectric, Pyroelectric, Electrooptic Constants, and Non-Linear Dielectric Susceptibilities of Crystals</i> (Mason) | Weast, R.C. (ed.): <i>CRC Handbook of Chemistry and Physics, 59th Edition</i> (Mason) | |
| Holland, H.D.: <i>The Chemistry of the Atmosphere and Oceans</i> (Maynard) | Wilson, J.L.: <i>Carbonate Facies in Geologic History</i> (Pettijohn) | |
| Holland, H.D.: <i>The Chemistry of the Atmosphere and Oceans</i> (Maynard) | The Wolfson Geochemical Atlas of England and Wales (Mason) | |
| Holland, H.D.: <i>The Chemistry of the Atmosphere and Oceans</i> (Maynard) | Yoder, H.S. Jr.: <i>Generation of Basaltic Magma</i> (Simkin) | |
| Holland, H.D.: <i>The Chemistry of the Atmosphere and Oceans</i> (Maynard) | Rhode Island | |
| Holland, H.D.: <i>The Chemistry of the Atmosphere and Oceans</i> (Maynard) | chlorite | |
| Holland, H.D.: <i>The Chemistry of the Atmosphere and Oceans</i> (Maynard) | muscovite | |
| Holland, H.D.: <i>The Chemistry of the Atmosphere and Oceans</i> (Maynard) | RIBBE, P.H.: The structure of a strained intermediate microcline | |
| Holland, H.D.: <i>The Chemistry of the Atmosphere and Oceans</i> (Maynard) | _____, Titanium, fluorine, and hydroxyl in the humite minerals | |
| Holland, H.D.: <i>The Chemistry of the Atmosphere and Oceans</i> (Maynard) | see LUMPKIN, G.R. | |
| Holland, H.D.: <i>The Chemistry of the Atmosphere and Oceans</i> (Maynard) | RICE, J.M.: Petrology of clintonite-bearing marbles in the Boulder aureole, Montana | |
| Holland, H.D.: <i>The Chemistry of the Atmosphere and Oceans</i> (Maynard) | RICHTER, W. see EVANS, B.W. | |
| Holland, H.D.: <i>The Chemistry of the Atmosphere and Oceans</i> (Maynard) | ROBBINS, D.B. see GHENT, E.D. | |
| Holland, H.D.: <i>The Chemistry of the Atmosphere and Oceans</i> (Maynard) | ROBIE, R.A. see KRUPKA, K.M. | |
| Holland, H.D.: <i>The Chemistry of the Atmosphere and Oceans</i> (Maynard) | ROBINSON, B.W. and E.H. NICKEL: The backscattered-electron/low vacuum mode of SEM operation | |
| Holland, H.D.: <i>The Chemistry of the Atmosphere and Oceans</i> (Maynard) | Roebeling Medal | |
| Holland, H.D.: <i>The Chemistry of the Atmosphere and Oceans</i> (Maynard) | Presentation by E-an Zen | |
| Holland, H.D.: <i>The Chemistry of the Atmosphere and Oceans</i> (Maynard) | Acceptance by J.B. Thompson, Jr. | |
| Holland, H.D.: <i>The Chemistry of the Atmosphere and Oceans</i> (Maynard) | ROGERS, R.J. and F.H. BROWN: Authigenic mitridatite | |
| Holland, H.D.: <i>The Chemistry of the Atmosphere and Oceans</i> (Maynard) | ROMANENKO, I.M. see KAZACHENKO, V.T. | |
| Holland, H.D.: <i>The Chemistry of the Atmosphere and Oceans</i> (Maynard) | 432 | |
| Holland, H.D.: <i>The Chemistry of the Atmosphere and Oceans</i> (Maynard) | RONSBØ, J.G. see MAZZI, F. | |

| | | | |
|---|---|-------------|--|
| ROSENBERG, P.E. and F.F. FOIT, JR: | Silica hydrates, from leached silicates | 799 | Systems, cont. |
| Synthesis and characterization of alkali-free tourmaline , see FOIT, F.F. JR. | Tl ₂ S-As ₂ S ₃ | 704 | |
| ROSS, F.K. see HOCELLIA, M.F. JR. | 180 Silicate framework structures | 1188 | |
| ROSS, M. and J.S. HUEBNER: Temperature-composition relationships between naturally-occurring augite, pigeonite, and orthopyroxene | 788 Silicate melts, compressibility | 1075 | |
| ROSSMAN, G.R. see POTTER, R.M. 1199,1219,1227 | 337 Silicates, leaching of | 799 | |
| Rostite, new mineral (abstr) | Sillimanite, structure | 573 | |
| ROZENSON, I. and E.R. BAUMINGER, L. HELLER-KALLAI: Mössbauer spectra of iron in 1:1 phyllosilicates | SIMKIN, T., review of <i>Generation of Basaltic Magma</i> (Yoder) , review of <i>Volcanic Regimes in Canada</i> (Baragar, Coleman and Hall) | 932 | Taiwan, ophiolite 1 |
| RUCKLIDGE, J.C. see MIURA, Y. Rutile, in Bushveld Complex | 1133 SIMPSON, D.R.: Subsolidus relations between CaAl ₂ Si ₂ O ₈ and Ca ₂ P ₂ O ₇ | 932 | TAKAHASHI, T. see WEAVER, J.S. 604 |
| Rustumite, new data (abstr) | SINKANKAS, J., review of <i>Menschen, Minen, Mineralien</i> (Lieber) | 1335 | TAKEUCHI, Y. and F. MAZZI, N. HAGA, E. GALLI: The crystal structure of wairakite 993 |
| RUTSTEIN, M.S.: Fibrous intergrowths of cross muscovite and cross chlorite | 893 SMITH, C.A. see KOMARNENI, S. | 650 | Talc, lattice parameters 211 |
| Sabatierite, new mineral (abstr) | 1272 SMITH, J.V.: Enumeration of 4-connected 3-dimensional nets and classification of framework silicates. III. Combination of helix, and zigzag, crankshaft and saw chains with simple 2D nets | 1049 | TARDY, Y. see VIEILLARD, P. 626 |
| SABELLI, C. see MENCHETTI, S. Salmonsite, discredited mineral | 1331 SNOKE, A.W. and S.E. WHITNEY: Relict pyroxenes from the Preston Peak ophiolite, Klamath Mountains, California | 551 | Tetrakalsilite, new mineral (abstr) 658 |
| Sanidine, entropy of mixing SANZ, J. and W.E.E. STONE: NRM study of micas, II | 383 SOKOLOVÀ, M.N. see CZAMANSKE, G.K. | 865 | Thadeuite, new mineral 359 |
| Sarcolite, new data (abstr) | 466 South Africa, Ti-bearing oxides | 140 | Thermodynamic data 300 |
| Sasaite, new mineral (abstr) | 57 South Dakota, lamprophyre | 986 | anthophyllite 300 |
| Satterlyite, new mineral (abstr) | 119 SPEER, J.A. see BALDASARI, A. | 742 | enstatite 300 |
| Scanning electron microscope, new technique | 245 Spinel, analyses | 258 | forsterite 300 |
| Scapolite, structure | 464 STARKEY, J. see KERRICH, R. | 452 | quartz 300 |
| Schafarzikite, structure | 657 Staurolite, dehydration to hercynite | 736 | talc 300 |
| Schirmerite, new data (abstr) | 1322 STEWART, D.B.: Presentation of the Mineralogical Society of America Award | 665 | THOMPSON, A.B. and M. WENNEMER: Heat capacities in tridymite, cristobalite, and tridymite-cristobalite mixed phases 1018 |
| SCHMID, R. and B.J. WOOD, G. CRESSEY: Experimental determination of univariant equilibria using divariant solid-solution assemblages: a reply | 1188 1235 Stibiopearceite, new mineral (abstr) | 243 | THOMPSON, J.B. JR.: Acceptance of the Roebling Medal 664 |
| Schoderite, redescription | 929 Stilbite, structure | 1188 | —, and G.L. HOVIS: Entropy of mixing in sandine 57 |
| Schuchardtite, discredited (abstr) | 713 Stishovite-coesite equilibrium | 604 | Tlapallite, new mineral (abstr) 465 |
| SCHWEITZER, E.L. and J.J. PAPIKE, A.E. BENCE: Statistical analysis of clinopyroxenes from deep-sea basalts | 1334 STODDARD, E.F.: Zinc-rich hercynite in high-grade metamorphic rocks | 736 | Todorokite, new data (abstr) 1333 |
| SCLAR, C.B. see BASS, J.D. | 501 Stoiberite, new mineral | 941 | Torreyite, X-ray diffraction data 951 |
| SCOTTFORD, D.M. see LASKOWSKI, T.E. 440 | 1173 STONE, W.E.E. see SANZ, J. | 119 | Tourmaline |
| SCOTT, S.D. see KISSIN, S.A. Sealing, cold-weld | 1306 STOUT, M.Z. see GHENT, E.D. | 874 | synthesis 180 |
| Semenovite, structure | 651 STULL, R.J.: Mantled feldspars and synneusis | 514 | vanadian 788 |
| Senegal, phosphatic sediments | 202 Sturman, D.B. see DUNN, P.J. | 352,708,949 | Tourmaline group, properties of end members 948 |
| Senegalite, structure | 626 Sulfur fugacity, measurement | 1306 | Trace-element partitioning 274 |
| SERNA, C.J. see VANSCOYOC, G.E. | 1243 Sweden | 1306 | Transmission electron microscopy |
| SEYFRIED, W.E. JR. and P.C. GORDON, F.W. DICKSON: A new reaction cell for hydrothermal solution equipment | 215 paulmooreite | 352 | anthophyllite 687 |
| SHARMA, S.K. and D. VIRGO, B.O. MYSEN: Raman study of the coordination of aluminum in jadeite melts | 1306 yttromicrolite | 890 | chesterite 687 |
| SHIRAKASHI, T. and T. KUBO: Cation distribution in franklinite by nuclear magnetic resonance | 779 Switzerland | 1294 | feldspar 404 |
| SHMAKIN, B.M.: Composition and structural state of K-feldspars from some U.S. pegmatites | 599 albite-anorthite assemblages | 15 | jimthompsonite 687 |
| Sidorenkite, new mineral (abstr) 1332 | 646 Synchysite-(Nd), new mineral (abstr) | 658 | Treasurite, new mineral (abstr) 243 |
| SIEGEL, F.R., review of <i>Geochemistry of Elements in the Super-gene zone</i> (Perel'man) | Ab-H ₂ O-HF | 514 | TREMBATH, L.T. see CHERRY, M.E. 66 |
| 1332 | Al ₂ O ₃ -AlPO ₄ -H ₂ O | 496 | Tridymite, heat capacity and inversions 1018 |
| 246 | Al ₂ O ₃ -SiO ₂ -H ₂ O | 1175 | Troilite, stability 1175 |
| | CaAl ₂ Si ₂ O ₈ -Ca ₂ P ₂ O ₇ | 1049 | TROMMSDORFF, V. see EVANS, B.W. 15 |
| | Co ₃ S ₄ -Cu ₃ S ₄ -Ni ₃ S ₄ | 138 | TSO, J.L. and M.C. GILBERT, J.R. CRAIG: Sulfdation of synthetic biotites 304 |
| | Cos ₂ -FeS ₂ -NiS ₂ | 138 | Tucekite, new mineral (abstr) 465 |
| | MgO-H ₂ O-CO ₂ | 32 | Turquoise, electron spin resonance 449 |
| | MgO-MgF ₂ -SiO ₂ -H ₂ O | 1156 | Turkey |
| | MgO-SiO ₂ -H ₂ O | 41,811 | omphacites 102 |
| | MgO-SiO ₂ -CO ₂ -H ₂ O | 288 | veatchite 362 |
| | NaAlSi ₃ O ₈ -H ₂ O-CO ₂ | 1036 | UEDA, S and M. KOIZUMI: Crystallization of analcime solid-solutions from aqueous solutions 172 |
| | | | UNGARETTI, L. see MAZZI, F. 202 |
| | | | Unit-cell data |
| | | | agrellite 563 |
| | | | andalusite 575 |
| | | | anthophyllite 296 |
| | | | apuanite 1233 |
| | | | armangite 749 |
| | | | axinite 639 |
| | | | baratovite 384 |
| | | | biotite 307 |
| | | | brucite 1159 |
| | | | buckhardtite 355 |
| | | | chondrodite 1159 |

| | | | |
|--|---|----------|---|
| Unit-cell data, cont. | | | |
| clinohumite | VALENCA, J.G. and A.D. EDGAR: | | WINTER, J.K. and S. GHOSE: Thermal |
| clinohypersthene | 1159 Pseudoleucites from Rio de | 733 | expansion and high-temperature |
| cordierite | 132 Janeiro State, Brazil | | crystal chemistry of the Al_2SiO_5 polymorphs |
| Cs-dioctahedral mica | 339 VANSCOYOC, G.E. and C.J. SERNA, | | , and F.P. OKAMURA, S. GHOSE: |
| cuproartinite | 1185 J.L. AHLRICHS: Structural | | A high-temperature structural |
| cuprohydromagnesite | 886 changes in palygorskite during | 215 | study of high albite |
| CuS_2 | 886 dehydration and dehydroxylation | 626 | 409 |
| davidite | 1265 Variscite, free energy | 136 | Wisconsin, gabbro |
| desautelsite | 1011 VAUGHAN, D.J. see CRAIG, J.R. | 362 | Witherite, composition and |
| ellisite | 127 Veatchite-A, modification of | | properties |
| enstatite | 701 VEBLEN, D.R. and P.R. BUSECK: | 362 | 742 |
| ferridravite | 296 Chain-width order and disorder | | Wollastonite-7T, new mineral |
| franklinite | 945 in biopyriboles | | (abstr) |
| garnet | 599 VENNUM, W.R. and C.E. MEYER: | 687 | WOOD, B.J. see SCHMID, R. |
| haidergerite | 270, 321 Plutonic garnets from the | | WYLLIE, P.J.: Magmas and volatile |
| hilgardite | 1253 Werner batholith | | components |
| hornblende | 188 Vernadite, new data (abstr) | 268 | , see ELLIS, D.E. |
| hungchaoite | 955 Versiliaite, new mineral | | 32, 41 |
| K-feldspar | 369 Vesuvianite, cerian | | |
| kolicite | 909, 912 VIALSOV, L.N. see KAZACHENKO, V.T. | 367 | Xanthoxenite, new data (abstr) |
| köttigite | 708 VIEILLARD, P. and Y. TARDY, | | Xiangjiangite, new mineral (abstr) |
| krautite | 1253 D. NAHON: Stability fields of | 432 | 466 |
| ktenasite | 376 clays and aluminum phosphates | 626 | X-ray diffraction data |
| kyanite | 447 Vikingite, new mineral (abstr) | 243 | Ag-Pb sulfoantimonite |
| lawsonbauerite | 575 VIRGO, D. see SHARMA, S.K. | 779 | apuanite |
| magnussonite | 949 | | aurorite |
| microcline | 391 | | burckhardtite |
| nigerite-24R | 402 | | $\text{Ca}_2\text{Al}_2\text{Si}_2\text{O}_5$ |
| norbergite | 1257 | | chalcoophanite |
| paulmooreite | 1159 Wairakite, crystal structure | 993 | Cs-dioctahedral mica |
| pharmacolite | 352 WALENTA, K. and P.J. DUNN: Ferri- | | 886 |
| piemontite | 1253 dravite, a new mineral of the | | cuproartinite |
| plagioclase | 321 tourmaline group | 945 | desautelsite |
| pyrope | 404 WALL, V.J. see PERKINS, D. III | 1080 | ellisite |
| pyroxenes | 806 WAN, C. see GHOSE, S. | 187, 563 | ferridravite |
| rasvumite | 1144 WAN, H.-M. see BRINDLEY, G.W. | 615 | hungchaoite |
| schafarzikite | 776 WATSON, E.B.: Calcium content of | | kerolite |
| schooderite | 1233 forsterite | 824 | kolicite |
| sellaita | 713 Wavelite, free energy | 626 | ktenasite |
| semenovite | 1159 WEAVER, J.S. and D.W. CHIPMAN, | | lawsonbauerite |
| senegalite | 202 T. TAKAHASHI: Comparison between | | paulmooreite |
| silicate spinels | 1243 thermochemical and phase stabi- | | piemelite |
| sillimanite | 1005 lity data for the quartz- | | rasvumite |
| stoiberite | 575 coesite-stishovite transforma- | | romanechite |
| talc | 941 tions | 604 | schafarzikite |
| thadeuite | 213, 296 WEIDNER, D.J. see LEVIEN, L. | 805 | schooderite |
| tourmaline | 359 Welshite, new mineral (abstr) | 244 | silica hydrates |
| veatchite-A | 180, 788 WENK, E.: On fourlings of plagio- | | thadeuite |
| versiliaite | 362 clase twinned according to the | | torreyite |
| vesuvianite | 1233 laws albite, Ala, and albite-Ala | | tourmaline |
| wairakite | 367 WENK, H.R.: An albite-anorthite | 917 | veatchite-A |
| witherite | 993 assemblage in low-grade amphi- | | versiliaite |
| yttromicrolite | 743 bohlite facies rocks | 1294 | yttromicrolite |
| zircon | 890 | | |
| Unnamed minerals | 197 : Superstructure variation | | |
| $\text{AgPb}_9\text{Sb}_6\text{S}_{18.5}$ | 432 in metamorphic intermediate | | |
| $\text{BaCa}(\text{CO}_3)_2$ (abstr) | plagioclase | 71 | |
| Ca carbonate-silicate (abstr) | 1332 WENNEMER, M. see THOMPSON, A.B. | 1018 | YACI, T. see FINGER, L.W. |
| $\text{CaMn}_4\text{Si}_5\text{O}_{15}\cdot 2\text{H}_2\text{O}$ (abstr) | 658 WESTRUM, E.F. JR. see PERKINS, | | YAHAMOTO, K. see HORIUCHI, H. |
| $\text{CaZrSi}_2\text{O}_7$ (abstr) | 244 D. III | 1080 | YAMANAKA, S. see BRINDLEY, G.W. |
| $(\text{Fe}, \text{Ag})_x\text{S}$ | 1332 WHIPPLE, E.R.: Errors in chemical | | Yedlin, L.N., memorial of |
| Hg-Pb amalgam (abstr) | analyses of two titanian micas | 1311 | Yttromicrolite, new mineral |
| $\text{NaFeS}_2(\text{OH})$ (abstr) | 432 WHITE, J.S.: Boehmite exsolution | | |
| palladium arsenide (abstr) | in corundum | 1300 | Zaire, cobalt-bearing sulfides |
| palladium arsenostannide | 652 : Lorettoite discredited and | 71 | Zeolite facies metamorphism |
| (abstr) | 241 chububite reviewed | 1303 | ZFM, F-AN: Presentation of the |
| tellurides (abstr) | 1333 , review of Minerals of | | Hoëbling Medal |
| Uranosposphate, new mineral | Georgia (Cook) | 660 | Zircon, crystal structure, |
| (abstr) | 1333 WHITE, W.B., review of <i>Atlas of</i> | | compressibility |
| U.S.S.R., ore minerals | 1332 <i>Infrared Spectroscopy of Clay</i> | | 136 |
| | 465 <i>Minerals and their Admixtures</i> | | 1 |
| | 432 (van der Marel and Beutel- | | ZFM, F-AN: Presentation of the |
| | spacher) | 661 | Hoëbling Medal |
| | Whiteite, new mineral (abstr) | 465 | Zircon, crystal structure, |
| | WHITEYNE, S.E. see SNOKE, A.W. | 865 | compressibility |