

INDEX TO VOLUME 20

Leading articles are in **bold face type**; notes, abstracts and reviews are in ordinary type. Only minerals for which definite data are given are indexed.

Accessory mineral suites in granites of Missouri. (Tolman, Koch).....	208	Andesite, altered (analysis)....	245
Adamite from Gold Hill, Tooele Co., Utah. (Staples)	371	Ankerites of Northumberland. (Hawkes, Smythe).....	314
Ahlfeldite. (Ramdohr).....	678	Anorthite from California. (Miller)	139
Albite (optical data).....	235, 747	Apophyllite from East Lothian. (Anderson, Elder).....	314
Alderman, A. R.	65	Architectural, Structural and Monumental Stones of Minnesota. (Thiel, Dutton) [Book review].....	883
Alexander, A. E. Opalized spherules from Utah?.....	602	Argillaceous sediments, technique for investigating, (Bray, Grim and Kerr)....	202
.....	208	Armstrong, E. J. Schroeckingerite from Bedford, N. Y....	62
Alleghanyite, chemical formula and crystal system. (Rogers).....	25, 197	Arsenides and antimonides of Ni and Co, x-ray study of. (Holmes).....	198
Allen, V. T. Memorial of Stephen Richarz.....	184	Arsenopyrite (crystals).....	21
Almandine from Botallack, Cornwall (analysis). Alderman).....	65	Asbestos, barite, corundum, rutile and vermiculite in Pennsylvania. (Stone)....	198
Aloisi, P. Application of determinants to crystallography.....	400	Augelite from Mono Co., Calif. (Lemmon)	664
α -monochlornaphthalene: methylene iodide series. (Buerger).....	199	Aurosmirid. (Zviagincev).....	740
α -uranopilit. (Nováček).....	813	Austinite, a new arsenate from Gold Hill, Utah. (Staples)	
α -uranotile. (Nováček).....	813	.....	112, 199
Amazonite aplite dike from Laborador. (Wheeler).....	44	Bain, G. W.....	205
Amber from Manitoba. (Walker).....	195	Bannister, F. A....	65, 316, 317, 811
Amick, H. C.	204	Barite in red beds in Colorado. (Howland).....	199
Aminoff, G.	315	Barnes, W. H. and Wendling, A. V. Laue symmetry exhibited by orthogonal crystals	253
Amphibole from Purcell sills, British Columbia (analysis and optical data).(Rice)		Barth, T. F. W. and Ksanda, C. J. Structure of dickite and other clay minerals... .	631
Anderson, C. A. Alteration of lavas surrounding hot springs in Lassen Volcanic National Park.....	240		
Anderson, J. G. C.....	314		

.....	209
Bauer, L. H.	197
Behre, C. H., Jr.	202
Benn, J. H. Occurrence of vivianite in District of Columbia	311
Berman, H.	197, 211
Bernal, J. D.	811
Bertrandite.	747
Beryl (analysis and optical data).....	17, 234, 747
Biotite (analysis and optical data).....	20, 512, 748
Biotite system. (Winchell)	773
Bismoclite. (Mountain)....	474, 813
Bismuth minerals, new, from S. Africa. (Mountain)....	474
Bismuth oxyhalides, crystal structure of. (Bannister) ..	65
Blockite. (Ramdohr)....	678
Bøggild, O. B.	138
Bøgvad, R.	137
Bokspuitite. (Mountain)....	474, 814
Bowen, N. L. and Schairer, J. F. Grünerite from Rockport, Mass., and a series of synthetic fluor-amphiboles	543
.....	197, 201, 208
Bravais space-lattices, derivation of. (Ramsdell)....	211
Bray, R. H.	202
Bryant, W. M. D. Crossed axial plane dispersion in two organic compounds. A peculiar extinction phenomenon	281
Buerger, M. J. Unit cell and space group of realgar	36
.....	196, 212
Buerger, N. W.	199
Burkeite, a new mineral from Searles Lake, Calif. (Foshag).....	50
Burwash, E. M.	205
Butler, R. D.	203
Calaverite, crystal structure of. (Tunell, Ksanda).....	211
CaO-MgO-SiO ₂ system. (Taylor, Williams).....	209
Carbon dioxide determination, new apparatus for. (Hey) ..	314
Celestite and fluorite at Clay Center, Ohio, occurrence and origin of. (Morrison) ..	780
Celestite from Chittenango Falls, N. Y. (Thibault)....	147
Cesáro, G.	541
Chapman, R. W. and Williams, C. R. Evolution of White Mountain magma series...	502
Chloropal.....	475
Chondrodite from Inverness-shire. (Read, Double)....	314
Chrom-beidellite. (Serdulenchenko).....	541
Chrom-nontronite. (Serdulenchenko).....	541
Chromite group. (Wishart)....	210
Cobalto-sphärosiderite. (Reissner).....	814
Colony, R. J. Schiller structure	201, 828
.....	195
Color photography in mineralogy. (Shaub).....	199
Color reactions in micro-chemical determination of minerals. (Watson).....	65
Colorado pegmatites. (Landes).	319
Conant, L. C. Optically positive cordierite from New Hampshire	310
Contact metamorphic zone from Little Belt Mts., Montana. (Taylor).....	120
Cooke, S. R. B. and Doan, D. J. Mineragraphy and x-ray analysis of stannierite from Swansea Mine, Goodsprings, Nevada.....	274
Copper ore minerals, identification of, by x-rays. (Waldo)	575
Cordierite, optically positive, from New Hampshire. (Conant)	310

Crazy Mountains of Montana. (Wolff).....	193	formation by means of heavy minerals.(Alexander)	208
Crestmore, Calif., paragenesis of mineral assemblage at. (Daly).....	638	Distribution of heavy minerals in the clays of New Jersey. (Hawkins).....	208, 334
Crossed axial plane dispersion in two organic compounds. A peculiar extinction phe- nomenon. (Bryant).....	281	Doan, D. J. and Cooke, S. R. B. Mineragraphy and x-ray analysis of stainierite from Goodsprings, Nevada.....	274
Crystal cavities in lavas from the Hawaiian Islands. (Dunham).....	880	Donnay, J. D. H. Application of determinants to crystal- lography.....	601
Crystal classification and sym- bolism. (Fisher).....	211, 292	Double, I. S.....	211
Crystal forms, tabulation of, and discussion of form names. (Rogers).....	838	Drosdoff, M. and Truog, E. Removal of iron oxide coatings from minerals....	314
Crystal growth and solution under local stress. (Russell)	733	Dunham, K. C. Crystal cavi- ties in lavas from Hawaiian Islands.....	669
Crystal structure of zoisite.....	106	Dutton, C. E. and Thiel, G. A. Architectural, Structural and Monumental Stones of Minnesota. [Book re- view].....	880
Crystallographic elements, choice of. (Peacock).....	212	Eardley, A. J. Book review... 402	
Crystallographic expression of the results of the theory of space groups. (Howard)...	212	Edelsteine und Schmucksteine. (Eppler) [Book review].... 401	
D'Achiardi, G.....	403	Elder, S.....	314
Dacite (analysis).....	244	Enargite and plumbojarosite at Picher, Oklahoma. (Ran- some).....	200, 799
Dahllite from Ishawooa, Wy- oming, spherulitic concre- tions of. (McConnell)...	693	English, G. L. Getting ac- quainted with minerals. [Book review].....	401
Daly, J. W. Paragenesis of the mineral assemblage at Crestmore, Riverside Co., California.....	638	Enstatite-hypersthene series, revision of. (Walls).....	318
De Leenheer, L.....	813	Epidote, anomalies in analytical determination of water in. (Smethurst).....	474
Denham, R. L.....	202	Eppler, A. and Eppler W. Fr. Edelsteine und Schmuck- steine. [Book review]....	811
Determinants, application to crystallography. (Aloisi) ..	400	Eppler, W. Fr. and Stutzer, O. Die Lagerstaetten der Edelsteine und Schmuck- steine. [Book review]....	401
Determinants, application to crystallography. (Donnay)	601	462	402
Dickite and other clay miner- als, structure of. (Ksanda, Barth).....	631		
Dickite from Pennsylvania (analysis). (Honess, Wil- liams).....			
Differentiation of Onondaga			

Ettringite, composition and crystal structure of. (Bernal, Bannister)	811	Geology of Western San Gabriel Mts. of California. (Miller) [Book review]	402
Faratsihite.	475	Getting acquainted with minerals. (English) [Book review]	318
Ferri-paraluminite. (Pilipenko)	404	Ginorite. (D'Achiardi)	403
Fisher, D. J. Crystal classification and symbolism.	211, 292	Glass, J. J. Pegmatite minerals from near Amelia, Va.	741
Fluid inclusions in sphalerite and galena from Joplin. (Smith)	204	—	469
Fluor-amphiboles, synthetic. (Bowen, Schairer)	197, 543	—	196
Fluorescence, petrographic use of. (Quinn)	466	Glaucite and mica, structural relationship of. (Gruner)	699
Fluorite and celestite at Clay Center, Ohio. (Morrison)	780	Goldich, S. S. and Tolman, C. Granite, pegmatite and replacement veins at Graniteville, Mo.	229
Fluorite occurrence. (Russell)	313	Golding, E.	65
Fluorite.	749	Graham, W. A. P. Occurrence of narsarsukite in Montana	598
Foshag, W. F. Burkeite, a new mineral from Searles Lake, Calif.	50	Granite, pegmatite and replacement veins in the Sheahan quarry, Graniteville, Mo. (Tolman, Goldich)	229
Foster, L. V.	210	Granitic intrusion in the St. Francois Mountain. (Tolman, Denham)	202
Fraser, D. M. Microscopic investigation of Friedensville, Pa., zinc ore.	203, 451	Greenalite, study of. (Jolliffe)	207, 405
Friedel's law of mean indices. (Donnay)	211	Greene, G. U. Occurrence of sphalerite at Ellsworth, Ohio	882
Friedensville, Pa., zinc ore. (Fraser)	203, 451	Grill, E.	740
Frondel, C. Size of crystals.	469	Grim, R. E.	202
Vectorial alteration of crystals.	852	Groves, A. W.	316
Fulgerites, origin and occurrence in Atlantic coastal plain. (Petty)	207	Gruner, J. W. Structural relationship of glaucite and mica	699
Fusion relations of feldspathoids, alkali feldspars and silica. (Schairer, Bowen)	201	— Structural relationship of nontronites and montmorillonite	475
Garnet, spessartitic almandite (analysis)	19	Grünerite from Rockport, Mass., and a series of synthetic fluor-amphiboles. (Bowen, Schairer)	543
Gehlenite (optical data)	124	Guarinite, clino and ortho. (Cesáro)	541
Genesis and structural relation of Absaroka volcanics. (Rouse)	206	Guild, F. N. Piedmontite in Arizona	679
Genetic relations of sphalerite in pegmatite. (Ross)	203		

Gypsum crystals from Alfalfa Co., Okla. (Merritt).....	674	Hurlbut, C. S. Jr. Dark inclusions in tonalite from southern California.....	205, 609
Hall, G. M.....	199, 204	Hyalosiderite (analysis and optical data).....	512
Hastingsite (analysis and optical data).....	512	Hydrocalumite. (Tilley).....	316
Hawkes, L.....	314	Hydrothermal mineralization at Graves Mt. (Johnston)....	201
Hawkins, A. C. Distribution of heavy minerals in clays of Middlesex Co., N.J....	208, 334	Hypersthenes, iron-rich, data on. (Henry).....	811
Heavy minerals in clays of Middlesex Co., N.J. (Hawkins).....	208, 334	Igalikite. (Bøggild).....	138
Heavy minerals in syenites of Pleasant Mountain, Maine, discussion of. (Marsden) ..	132	Igneous assimilation and associated contact metamorphism in Virginia mining district, N.M. (Lasky)....	552
Hedenbergite (analysis and optical data).....	512	Ilmenite (analysis and optical data).....	512
Heineman, R. E. S. Petrography of the Roy, Harding Co., N.M., meteorite.....	438	International Tables for the determination of crystal structures. [Book review].	739
Henderson, E. P. Steigerite, a new vanadium mineral... ..	769	Iron oxide coatings on minerals, removal of. (Drosdoff, Truog).....	669
	196		
Henry, N. F. M.....	811	Janite. (Thugutt).....	314
Herderite from Topsham, Maine, crystallography of. (Yatsevitch).....	198, 426	Jarlite. (Bøgvad).....	137
Herzenbergite. (Ramdohr)....	541	Jarosite in tuff from Potosi, Bolivia. (Milton).....	176
Hess, H. H.....	201	Johnston, W. D. Jr.....	201
Hey, M. H.....	314	Jolliffe, F. Study of greenalite	207, 405
Hisingerite.....	482, 483		
Hitchen, C. S. Pegmatites of Fitchburg, Mass.....	1	Keller, W. D. Occurrence of mendozite and tamarugite in Missouri.....	537
Ho, T. L. Rapid method for determination of plagioclase by Fedorov universal stage.....	790	— Removal of bubbles from old thin-sections of rocks.....	540
Holmes, R. J.....	198	Kennard, T. G. Spectrographic examination of smoky and ordinary quartz from Rincon, Calif.....	392
Honess, A. P. and Williams, F. J. Dickite from Pennsylvania.....	462	Kerr, P. F. U-galena and uraninite in Bedford, N.Y. cyrtolite.....	443
Hornblende (analysis and optical data).....	512	—	202, 207
Howard, W. V.....	212	Klang, H.....	740
Howland, A. L.....	199		
Hunt, W. F. Book reviews..	318, 883		

Klug, H. P., Pauling, L. and Winchell, A. N. Crystal structure of swedenborgite.	492	Lavas surrounding hot springs in Lassen Volcanic National Park, alteration of. (Anderson).....	240
Kiscellite. (Zechmeister, Toth, Koch).....	315	Lemmon, D. M. Augelite from Mono Co., Calif.....	664
Kobalt-oligonspat. (Reissner).....	814	Lewis, J. V. Memorial of Henry S. Washington.....	179
Koch, A.....	315	Lightfoot, B.....	65
Koch, H. L.....	208	Lindgrenite, a new mineral. (Palache).....	187, 484
Kraus, E. H. Book reviews.....	401, 402	Linear mineralogical arithmetic. (Parsons).....	197, 388
Krieger, P. Primary native silver ores at Batopilas, Mex. and Bullard's Peak, N. Mexico.....	715	Linnaeite group of Co-Ni-Fe-Cu sulfides. (Tarr).....	69
Ksanda, C. J., and Barth, T. F. W. Structure of dickite and other clay minerals	631	Löss und seine geotechnischen Eigenschaften. (Scheidig) [Book review].....	63
—	211	Lusakite. (Skerl, Bannister, Groves).....	316
K_2SO_4 , MgSO_4 , CaSO_4 system, x-ray data on. (Ramsdell).....	209, 569	Macgregor, A. M.....	65
Kyanite in "hornfels zone" of Carn Chuinneag granite. (Tilley).....	474	Magnetite in Tennessee. (Hall).....	199
Lagerstaetten der Edelsteine und Schmucksteine. (Stutzer, Eppler) [Book review].....	402	Mangan-ilmenite. (Simpson)....	403
Landes, K. K. Age and distribution of pegmatites.....	81, 153	Mangano-tantalite.....	750
— Colorado pegmatites...	319	Marsden, R. W. Discussion of "Heavy minerals in the syenites of Pleasant Mountain, Maine".....	132
Lane, A. C.....	731	Matlockite. (Bannister).....	317
Lapparent, J. de.....	315	Maxixeberyl (Wild, Schlossmacher, Klang, Roebling).....	740
Larsen, E. S. and Miller, F. S. Rosiwal method and the modal determination of rocks.....	260	McCann, D. C. and Waldbauer, L. Crystal structure of zoisite.....	106
— Book review.....	675	McConnell, D. Spherulitic concretions of dahlite from Ishawooa, Wyo.....	200, 693
Lasky, S. G. Igneous assimilation and associated contact metamorphism in the Virginia mining district, N.M. 552		Mendozite, occurrence in Missouri. (Keller).....	537
Laudermilk, J. D. Soda-alunite from Molokai, Hawaiian Islands.....	57	Merritt, C. A. Gypsum crystals from Alfalfa Co., Okla....	674
Laue symmetry exhibited by orthogonal crystals. (Barnes, Wendling).....	253	Merwinite (optical data).....	124
		Metajarlite. (Bøgvad).....	137
		Metallogenetic relations of porphyry and quartz diabase. (Burwash).....	205
		Metamorphic differentiation at	

serpentine-country rock contacts. (Phillips, Hess).	201	Nominations for officers, 1936	677
Metascolecite. (Hey).....	314	Proceedings of 15th annual meeting.....	188
Metasomatism associated with greenstone-hornfelses of Cornwall. (Tilley).....	811	Progress report, committee on affiliation.....	65
Meteoric stone, Mangwendi, Rhodesia, March 7, 1934. (Lightfoot, Macgregor, Golding).....	65	Proposed amendments to constitution by by-laws.....	811
Methylene iodide and α -mono-chlornaphthalene immersion liquids. (Buerger).....	199	Mineralogical Society of Great Britain and Ireland.....	
Meyer, D. B. Sericite of unusual composition.....	384	.....64, 313, 474, 812	812
Mica peridotite in Tennessee. (Hall, Amick).....	204	Mineralogy of silicosis. (Colony).....	196
Microcline (crystals).....	13	Moehlman, R. S. Quartz paramorphs after tridymite and cristobalite.....	808
Microcline.....	751	Monazite from West Portland Township, Quebec. (Spence, Muench).....	724
Microlite.....	751	Monazite.....	753
Micropycnometric method for determining specific gravity of minerals. (Syromyatnikov).....	364	Mongolian magmas. (Bain)....	205
Microscope optics. (Foster)...	210	Monoclinic ethyl triphenylpyrrolone (optical properties).	289
MgO-CaO-SiO ₂ system. (Taylor, Williams).....	209	Monticellite from San Bernardino Co., Calif. and the monticellite series. (Schaller).....	815
MgO-FeO-SiO ₂ system. (Bowen, Schairer).....	569	Monticellite (indices).....	138
MgSO ₄ -K ₂ SO ₄ -CaSO ₄ system. (Ramsdell).....	137	Montmorillonite and nontronites, structural relationship of. (Gruner).....	475
Miljarlite. (Bøgvad).....	139	Morencite.....	475
Miller, F. S. Anorthite from California.....	260	Morinite from Black Hills pegmatite. (Runner).....	196
——— and Larsen, E. S. Rosenthal method and modal determination of rocks....	402	Morrison, R. B. Occurrence and origin of celestite and fluorite at Clay Center, Ohio.....	780
Miller, W. J. Geology of Western San Gabriel Mts. of California. [Book review]..	678	Mountain, E. D.....	474, 813, 814
Milowite. (Wilson).....	176	Muench, O. B. and Spence, H. S. Monazite from Quebec.....	724
Milton, C. Jarosite in tuff from Potosi, Bolivia.....	813	Mullite, crystallography of (Berman).....	211
Mindigite. (DeLeenheer).....	216	Murnpeowie (South Australia), a granular type of meteoric iron. (Spencer).....	64
Mineralogical Society of America: List of fellows and members.	215	Muscovite (analysis and optical data).....	20, 235, 754
List of former officers and meetings.....			

Mylonitic sphalerite from Friedensville, Pa. (Butler).	203
Narsarsukite, occurrence in Montana (analysis). (Graham).	578
Naujakasite. (Bøggild).	138
New mineral names.	137, 314, 403, 541, 678, 740, 813
New York Mineralogical Club.	604
Nontronites and montmorillonite, structural relationship of. (Gruner) .	475
Northrop, S. A. Thulite in New Mexico.	805
Noselite-hauyne series. (Barth)	209
Nováček, R.	813
Oligoclase (optical data and analysis).	17
Opalized spherules from Utah? (Alexander).	602
Olivine (analysis).	511
Pachnolite(optical data).	324
Palache, C. Additional notes on pseudobrookite .	660
— Lindgrenite, a new mineral.	187, 484
Palmer, R. N. Abnormal surface structure of quartz lens.	129
Parsons, A. L. Linear mineralogical arithmetic.	197, 388
Paragenesis of mineral assemblage at Crestmore, Calif. (Daly) .	638
Pauling, L., Klug, H. P. and Winchell, A. N. Crystal structure of swedenborgite	492
Peacock, M. A. Topaz from Devil's Head, Colorado.	196, 354
—	212
Pegmatite minerals from near Amelia, Va. (Glass).	741
Pegmatites, age and distribution. (Landes) .	81, 153
Pegmatites, Colorado (Landes)	319
Pegmatites of Fitchburg, Mass. (Hitchén) .	1
Perthite (analysis).	233
Petty, J. J.	207
Phenacite, morphology from two new occurrences. (Pough)	198, 863
Phenacite.	756
Philadelphia Mineralogical Society.	136, 313, 401, 542, 604, 810
Phillips, A. H.	201
Piedmontite in Arizona. (Guild)	679
Piedmontite from Los Angeles Co., Calif. (Simonson).	737
Pilipenko, P. P.	404
Pinguite.	475
Plagioclase, rapid determination by universal stage. (Ho) .	790
Plane groups, application to interpretation of Weissenberg photographs. (Buerger).	212
Plumbojarosite at Picher, Okla. (Ransome).	200, 799
Pough, F. H. Morphology of phenacite from two new occurrences .	198, 863
Prehnite (optical data).	123
Prosopite (optical data).	324
Pseudobrookite. (Palache) .	660
Pseudosillimanite. (Lapparent)	315
Pyroxene group, further studies in. (Winchell) .	195, 562
Pyroxmangite from Idaho. (Henderson, Glass).	196
Quartz dolerites and tholeites of Scotland (Walker).	474
Quartz lens, abnormal surface structure of. (Palmer).	129
Quartz paramorphs after tridymite and cristobalite. (Moehlman).	808
Quartz, smoky and ordinary from Rincon, Calif., spectrographic examination of. (Kennard).	392

Quinn, A. Petrographic use of fluorescence.....	466	and solution under local stress.....	733
Ramdohr, P.....	541, 678	Sahlinite. (Aminoff).....	315
Ramsdell, L. S. X-ray study of the system K_2SO_4 , $MgSO_4$, $CaSO_4$	209, 569	Scapolite.....	649
——— Book review.....	739	Scawtite (optical data).....	126
———.....	211	Scawtite. (Tilley).....	403
Ransome, A. L. Enargite and plumbogjarosite at Picher, Okla.....	200, 799	Schairer, J. F., and Bowen, N. L. Grünerite from Rockport, Mass., and a series of synthetic fluor-amphiboles.	543
Read, H. H.....	314	.....	201, 208
Realgar, unit cell and space group of. (Buerger).....	36	Schaller, W. T. Monticellite from San Bernardino Co., Calif., and the monticellite series.....	815
Reissner, R.....	814	Scheelite-beryl deposit at Oreana, Nev. (Kerr).....	207
Replacement in filled fissure veins. (Shaub).....	875	Scheidig, A. Der Löss und seine geotechnischen Ei- genschaften. [Book review]	63
Reposite. (Grill).....	740	Schiller structure. (Colony).	201, 828
Rice, H. M. A. Amphibole from Purcell sills, British Columbia.....	307	Schlossmacher, K.....	740
Richarz, S., memorial of. (Al- len).....	184	Schroeckingerite from Bedford, N.Y. (Armstrong).....	62
Riebeckite (analysis and optical data).....	512	Scocelite. (Hey).....	314
Rocks from Adelia Land and the Antarctic archipelago. (Stewart).....	206	Senstius, M. W. Book review..	63
Roebling, W.....	740	Sepiolite (analysis and optical data).....	651
Rogers, A. F. Chemical formula and crystal system of alleghanyite.....	25, 197	Serdachenko, D. P.....	541
——— Tabulation of crystal forms and discussion of form names.....	838	Sericite of unusual composition. (Meyer).....	384
.....	191, 210	Shaub, B. M. Replacement in filled fissure veins.....	875
Rosiwal method and the modal determination of rocks. (Larsen, Miller).....	260	.....	199
Ross, C. S.....	203	Siderite, manganiferous (analy- sis).....	379
Rouse, J. T.....	206	Silica framework crystals and their stability fields. (Buerger).....	196
Roy, Harding Co., N.M., mete- orite, petrography of. (Heineman).....	438	Silver ores, primary native, at Batopilas, Mexico, and Bullard's Peak, N.M. (Krieger).....	714
Runner, J. J.....	196	Simonson, R. R. Piedmontite from Los Angeles Co., Calif.....	737
Russell, A.....	313	Simpson, E. S.....	403
Russell, G. A. Crystal growth			

Size of crystals. (Frondel).....	469	ture of. (Pauling, Klug, Winchell).....	492
Skerl, A. C.	316	Syngony, use of term in geometrical crystallography.	
Smethurst, A. F.	811	(Rogers).....	210
Smith, W. S. T.	204	Syromyatnikov, F. V. Micro-pycnometric method for determination of specific gravity of minerals.....	364
Smythe, J. A.	314		
Soda-alunite from Molokai, Hawaiian Islands. (Laudermilk).....	57		
Spence, H. S. and Muench, O. B. Monazite from West Portland Township, Quebec.....	724	Tamarugite, occurrence in Missouri. (Keller).....	537
Spencer, L. J.	64	Tarr, W. A. Linnaeite group of Co-Ni-Fe-Cu sulfides.....	69
Spessartite.....	757	Taylor, J. H. Contact metamorphic zone from Little Belt Mts., Mont.....	120
Spezielle Petrographie der Eruptivgesteine, ein Nomenklatur-kompendium in Auftrage der deutschen Mineralogischen Gesellschaft. (Tröger) [Book review].....	675	Taylor, N. W.	209
Sphalerite, occurrence at Ellsworth, Ohio. (Greene).....	882	Technique for investigation of argillaceous sediments. (Bray, Grim, Kerr).....	202
Staples, L. W. Adamite from Gold Hill, Tooele Co., Utah.....	200, 371	Tengerite.....	728
— Austinite, a new arsenate from Gold Hill, Utah.	112, 199	Tetradymite from Inyo Mts., Calif. (Webb).....	399
....	200	Thibault, N. W. Celestite from Chittenango Falls, N.Y.	147
Stainierite from Swansea Mine, Goodsprings, Nev., mineralogy and x-ray analysis of. (Cooke, Doan).....	274	Thiel, G. A. and Dutton, C. E. Architectural, Structural and Monumental stones of Minnesota. [Book review].	883
Stark, J. T.	202	Thin-sections of rocks, removal of bubbles from. (Keller) ..	540
Stearn, N. H. Stibnite in quartz	59	Thugutt, S. J.	314
Steidtmann, E.	206	Thulite in New Mexico. (Northrop).....	805
Steigerite, a new vanadium mineral. (Henderson)....	769	Tilley, C. E.	316, 403, 474, 811
Stewart, D. Jr.	206	Todorokite. (Yoshimura).....	678
Stibnite in quartz. (Stearn)....	59	Tolman, C. and Goldich, S. S.	
Stilpnochlorite.....	475	Granite, pegmatite and replacement veins in Sheahan quarry, Graniteville, Mo.	229
Stone, R. W.	198	....	202, 208
Stutzer, O. and Eppler, W. Fr. Die Lagerstaetten der Edelsteine und Schmucksteine. [Book review].....	402	Tomichi Dome flow. (Stark, Behre).....	202
Swedenborgite, crystal struc-		Tonalite of southern California, dark inclusions in. (Hurlbut).....	205, 609

Topaz from Devil's Head, Colo.		Walls, R.....	474
(Peacock).....	196, 354	Warner, T. W. Jr. Spectrographic analysis of tourmalines with correlation of color and composition.....	531
Topaz.....	758	Washington, H. S., memorial of. (Lewis).....	179
Tóth, G.....	315	Watson, J. A.....	65
Tourmalines, spectrographic analysis of, with correlation of color and composition. (Warner).....	531	Webb, R. W. Tetradyomite from Inyo Mts., Calif.....	399
Tourmaline.....	12	Wendling, A. V. and Barnes, W. H. Laue summery of orthogonal crystals.....	253
Travertine near Lexington, Va. (Steidtmann).....	206	Wheeler, E. P. 2nd. Amazonite aplite dike from Labrador.	44
Tridymite (optical data).....	242	White Mt. magma series, evolution of. (Chapman, Williams).....	502
Triphenylbismuthine dichloride (optical properties).....	285	White Raven Mine, Ward, Colo., minerals of. (Wahlstrom).....	377
Tröger, W. E. Spezielle Petrographie der Euruptivgesteine, ein Nomenklaturkompendium in Auftrage der deutschen Mineralogischen Gesellschaft. [Book review].....	675	Wild, G. O.....	740
Tromnau, H. W.....	740	Williams, C. R. and Chapman, R. W. Evolution of White Mt. magma series.....	502
Truog, E. and Drosdoff, M. Removing iron oxide coatings from minerals.....	669	Williams, F. J. and Honess, A. P. Dickite from Pennsylvania.....	462
Tunell, G.....	211	—	209
U-galena and uraninite in Bedford, N.Y., cyrtolite. (Kerr)	443	Wilson, J. N.....	678
Vectorial alteration of crystals. (Frondel).....	852	Winchell, A. N. Biotite system. — Further studies in the pyroxene group.....	773
Vivianite, occurrence in District of Columbia. (Benn). Wahlstrom, E. E. Minerals of White Raven Mine, Ward, Colo.	311	—, Pauling, L. and Klug, H. P. Crystal structure of swedenborgite.....	492
Waldbauer, L. and McCann, D. C. Crystal structure of zoisite.....	377	Wishart, J. S.....	210
Waldo, A. W. Identification of copper ore minerals by means of x-ray patterns... Walker, F.....	106	Wolff, J. E. Crazy Mts. of Montana	193
Walker, T. L.....	575	Xonotlite from Franklin Furnace. (Bauer, Berman)....	197
	474	X-ray study of arsenides and antimonides of Ni and Co. (Holmes).....	198
	195	X-ray study of system K_2SO_4 , $MgSO_4$, $CaSO_4$. (Ramsdell).....	209, 569

Yatsevitch, G. M. Crystallography of herderite from Topsham, Maine.....	198, 426	Zeolites IX. Scolecite, metascolecite. (Hey).....	314
Yoshimura, T.....	678	Zinnwaldite.....	759
Zechmeister, L.....	315	Zoisite, crystal structure of. (Waldbauer, McCann)....	106
		Zviagincev, O.....	740