

Index

Abyssal theories of origin of gold deposits	391	Antarctica		Calamine	183
Acanthite	192	gold deposits in	98	Calaverite	20
Adularia	182	Azurite	184	Calcite	183
Africa		Bacteria	56, 79, 80	Calcium	
gold deposits in	90, 91, 103, 108, 110	Bajada placers	347	in gold deposits	124
Agnew Lake Mine, Ontario	333	Ballarat goldfield, Australia	289, 342	Calhoun Mine, Georgia	438
Alabandite	192	Barberton gold district, South Africa	261	Cam and Motor Mine, Rhodesia	263
Alaska Juneau Gold Mine	290	Barite	185	Camflo Mine, Quebec	298
Albite	182	Barium		Camlaren Mine, Northwest Territories	280
Allanite	183	in gold deposits	125	Camp Bird Mine, Colorado	275
Allemontite	168	Bastnaesite	184	Canadian Shield	
Alluvial placers	342	Bathurst Zn-Cu-Pb deposits,		gold deposits in	99
Altai placers, U.S.S.R.	351	New Brunswick, gold content of		Canavieiras Mine, Brazil	328
Altai-Sayan skarn deposits, U.S.S.R.	251	gossans	442	Canga, auriferous	341
Aluminum		Baton Lake prospect,		Carbon	
in gold deposits	130	Northwest Territories	296	in gold deposits	138
Alunite	185	Battle Mountain gold deposits,		Carburan	166
Alunitization	211	Colorado	250, 437	Carbonaceous matter	165
Amorphous carbon	165	Bau gold district, Sarawak	251, 436	Carbonado	167
Amphiboles	183	Bauxite	56	Carbonates	183
Amphibolitization	209	Beach placers	350	Carbonatization	210
Andalusite	183	Beattie Gold Mine, Quebec	232	Cariboo Gold Quartz Mine,	
Andrew Yellowknife prospect,		Beatty gold deposits, Nevada	271	British Columbia	281
Northwest Territories	302	Beauceville placer area, Quebec	361	Cariboo placers, British Columbia	351, 357
Anglesite	185	Belaya Gora gold deposit, U.S.S.R.	270, 342	Caribou Mine, Nova Scotia	240
Anhydrite	185	Beudantite	185	Carlin gold deposit, Nevada	247, 307
Ankerite	183	Bendigo gold district, Australia	289	Cassiterite	195
Ankeritization	210	Beresitization	209	Castlemaine gold district, Australia	289
Annabergite	185	Beresovsk gold deposits, U.S.S.R.	300	Celestite	185
Anthroxolite	166	Berringa gold district, Australia	289	Cenozoic era	109
Antimony		Beryl	183	Central City gold district, Colorado	232, 292
in gold deposits	145	Beryllium		Central Mongolian Peoples Republic	
native	168	in gold deposits	124	gold deposits	439
Apatite	185	Bindheimite	185	Central Patricia Mine, Ontario	302
Appalachian gold belt, U.S.A.	285	Bingham copper deposit		Cerium	
Aragonite	184	gold content of oxidized zones	444	in gold deposits	134
Arctic Chief Mine, Yukon	215	Biotite	182	Cerussite	184
Argentinian gold	168	Biotitization	209	Cesium	
Argentite	192	Bismuth		in gold deposits	122
Argentojarosite	185	in gold deposits	147	Chalcanthite	185
Argillic alteration	211	minerals	190	Chalcocite	192
Argosy Gold Mine, Ontario	240	native	168	Chalcocopyrite	188
Arsenic		Bismuthinite	190	Chaudière River placers, Quebec	361
in gold deposits	143	Bismutite	184	Chesterville Mine, Ontario	254
native	168	Black Mountains, Arizona	271	Chilean gold deposits	439
Arsenopyrite	188	Blind River-Elliott Lake		China, placers	370
Arsenopyritization	210	uraniferous conglomerates	330	Chinkuashih deposit, Taiwan	234, 267
Ashanti lode, Ghana	326	Bodie gold belt, California	275	Chlorargyrite	185
Asia		Bog-iron ore	56	Chlorine	
gold deposits in	97, 98, 105, 108, 111	Bog-manganese ore	56	in gold deposits	157
Atacamite	185	Bonanza goldfield, Colorado	275	Chlorite	182
Atlin district placers,		Bornite	192	Chloritization	209
British Columbia	359	Boron		Chloritoid	182
Auricupride	18	in gold deposits	129	Chocó placers, Colombia	365
Auriferous conglomerates		Boulder County, Colorado gold deposits	441	Chromite	196
China	380	Box Mine, Goldfields, Saskatchewan	236, 296	Chromium	
general	376	Bralorne Mine, British Columbia	228	in gold deposits	153
New Zealand	379	Brannerite	196	Chrysocolla	183
South Africa	121, 313	Bridge River gold district,		Cibao placers, Haiti	351
U.S.S.R.	380	British Columbia	228, 232	Cinnabar	191
Auriferous porphyries, granitic		Brochantite	185	Clunes gold district, Australia	289
bodies, etc.	248	Bromargyrite	185	Cobalt	
Auriferous quartz-pebble conglomerates		Bromine		in gold deposits	161
general	310	in gold deposits	158	Cobaltite	190
origin	428	Burwash Prospect,		Cobar district, Australia	
Auriferous skarn bodies	118, 249	Yellowknife, N.W.T.	240, 280	gold content of gossans	443
Auriferous veins, etc. in		Bustamite	183	Cochenour Willans Mine, Ontario	298
sedimentary terranes	279	Butte copper deposits, Montana,		Colombia goldfields	277
Aurostibite	21	gold content of oxidized zones	445	Comstock Lode, Nevada	271, 301
Australasia		Byeryozovsky gold deposits, Urals	237	Consolidated Discovery Yellowknife	
gold deposits in	98, 106, 109, 113	Cable Mine, Montana	250	Mine, Northwest Territories	280
		Cadmium		Contwoyto Lake gold deposits,	
		in gold deposits	126	Northwest Territories	304

Coolgardie gold district, Australia	232, 261	Fuchsite	182	in pyritiferous shales and schists	389
Copper		Gabriels Gully fossil placer, New Zealand	379	in pyrrhotite	29
energetic properties	9	Gahnite	194	in the sea	390
in gold deposits	123	Galena	189	in sedimentary rocks	43, 44, 46, 47
native	168	Gallium		in sediments of the sea	390
Cordierite	183	in gold deposits	130	in silicates	22, 42, 43
Cordova Mine, Ontario	227	Garnet	183	in silver tellurides	23, 25
Cortez gold deposit, Nevada	307	Gays River placer, Nova Scotia	376	in soils and weathered products	51, 52, 53, 54-57
Corundum	195	Gebeit Mine, Sudan	263	in sulphates	32, 33, 35, 36
Cosalite	190	Geobarometry of gold deposits	410	in sulphides	25, 26, 27, 28, 29, 30, 31, 32, 42, 43
Creede gold district, Colorado	275, 438	Geothermometry of gold deposits	410	in sulphosalts	25, 28
Cretaceous auriferous conglomerate, California	378	Germanium		in tektites	15
Cretaceous-Tertiary auriferous sandstones and conglomerate, Wyoming	378	Gersdorffite	190	in terrestrial materials	37
Cripple Creek gold district, Colorado	277, 440	Getchell gold deposits, Nevada	307	in tungstates	32, 33, 34, 36
Crocoite	185	Glacial and postglacial placers	374	iridic	18
Crow River gold district, Ontario	254	Glauco-dot	190	isotopes	14
Cubanite	192	Gold		minerals	16, 17
Cuproauride	18	abundance	14, 16, 43	miscellaneous sources	386
Cuprobismutite	190	amalgam	18	native	16
Dahlonga gold belt, Georgia	341	analytical methods for	487	nuggets	19
Danaite	190	argentian	18	nuggets, origin	382
Daylesford gold district, Australia	289	biogeochemistry	79	palladian (porpezite)	18
Deadwood Formation, South Dakota, auriferous	377	bismuthic (maldonite)	18	physical properties	18
Dease Lake area placers, British Columbia	359	cuprian	18	placers	57, 333
Deep lead placers, Victoria, Australia	368	cycle of interconversions	11	platinum	18
Dehydration	211	energetic properties	9	Pourbais diagram	10
De Lamar goldfield, Idaho	271	general chemistry	9-14	rhodian (rhodite)	18
Diamond	167	geochemical character	14, 16	solubility of compounds	14
Diffusion in gold deposits	399	historical	1-7	tellurate	21
Disseminated gold deposits	295	in animals	84, 85	tellurides	20
Dolomite	183	in antimonates	32, 33, 34, 36	thermodynamic data	10
Dolomitization	210	in antimonides	25, 26	uses	491
Digenite	192	in arsenates	32, 34, 36	world production	489
Dublin Gulch, Yukon	437	in arsenides	25, 26, 29, 30, 31, 32	Gold deposits	
Dublin Gulch placer, Yukon	339, 351	in arsenopyrite	29, 30, 31, 32	Cenozoic age	109
Dusty Mac Mine, British Columbia	275	in the atmosphere	88	classification	89, 90
Dyscrasite	168	in base metal selenides	23, 25	gold tellurides	277
Eastern Ontario gold belt	250	in base metal tellurides	23, 25	in quartz-pebble conglomerates	310
Eastern Townships placers, Quebec	364	in bismuthides	27	Mesozoic age	107
Edmonton Formation, auriferous	377	in black sands	390	metallo-genetic epochs and provinces	90-117
Egyptian goldfields	263	in carbonates	32, 33, 35	origin	390
El Chivato (Talca) Mine, Chile	299	in carbonatites	390	Paleozoic age	102
Eldorado Mine, Rhodesia	310	in coal	86, 87	Precambrian age	90
Electrum	18, 168	in cupriferous and argentiferous sandstones	390	selenides	279
El Oro gold district, Mexico	270	in cupriferous shales and schists	389	Gold/silver ratios	197
El Sid Mine, Egypt	263	in halides	32, 33, 35	Gold veins, etc. in complex geological environments	290
Eluvial placers	57, 337	in humus	85	Gold veins, etc. in volcanic terranes	118, 251
Embreyite	185	in igneous-type rocks	37, 38	Gold Acres gold deposit, Nevada	307
Emperor Gold Mine, Fiji	267	in iron-formations	46, 47	Goldfield deposits, Nevada	230, 271, 301
Epidote	183	in Kurokô deposits	388	Gold Hill gold district, Colorado	295
Erythrite	185	in lunar materials	15	Gold Circle gold deposits, Nevada	271
Europe		in massive sulphide bodies	386	Gornyi Altai skarn deposits, U.S.S.R.	251
gold deposits in	97, 104, 108, 110	in metamorphic rocks	49, 50, 51	Graphite	165
Feldspathoids	183	in meteorites	15	Grass Valley gold district, California	291
Feldspathization	209	in muskegs and marshes	85	Greenhorn Mine, California	341
Fiji goldfields	267	in native elements	23, 24	Greisenization	209
Fineness of gold	197	in natural hydrocarbons	87, 88	Gulch and creek placers	351
Fischesserite	21	in natural precipitates	57, 61, 62, 63	Gutii Mountains, Romania	234
Florencite	185	in natural waters	57, 58-79	Gypsum	185
Fluocarbonates	184	in nitrates	33, 34	Hafnium	
Fluorine		in organic shales	87, 88	in gold deposits	143
in gold deposits	157	in oxides	32, 33, 34, 35, 36, 37, 42, 43	Haggart Creek placers, Yukon	351
Fluorite	184	in peat bogs	85	Halite	184
Fluoritization	209	in petroleum	87, 88	Hanes gold deposit, Romania	234
Fossil gold placers	376	in phosphates	32, 34, 36	Hard Rock Gold Mine, Ontario	302
Franklinite	194	in plants	79, 80, 81, 82, 83	Hargraves goldfield, Australia	342
French Mine, Hedley, British Columbia	250	in platinum deposits	390	Hasaga Mine, Ontario	295
		in polymetallic veins, etc.	387	Hauraki goldfield, New Zealand	233, 265
		in porphyry Cu-Mo deposits	389	Hematite	194
		in pyrite	29, 30, 31, 32, 42, 43		

Hematitization	211	Little Long Lac-Sturgeon River gold district, Ontario	291	Nitrogen	
Hollinger Mine, Ontario	254	Loellingite	190	in gold deposits	143
Homestake Mine, South Dakota	247, 302	Lower Eocene auriferous sediments, Texas	378	Nolanite	185
Howey Mine, Ontario	295	Madsen Mine, Ontario	248, 301	Nome beach placers, Alaska	351, 371
Hutti goldfield, India	261	Magmatic differentiation theories of origin of gold deposits	391	North America	
Hydration	211	Magnesite	183	gold deposits in 90, 91, 99, 100, 102, 107, 109	
Hydrogen		Magnesium		Northwestern Quebec gold district	256
in gold deposits	118	in gold deposits	124	North Saskatchewan River placers, Alberta	375
Ilmenite	194	Magnetite	194	Nova Scotia goldfields	281
Indian River auriferous conglomerates, Yukon	377	Magnolia gold district, Colorado	295	Oatman goldfield, Arizona	271
Indonesian goldfields	267	Maikain 'S' deposit, U.S.S.R., gold content of gossan	445	Oligoclase	182
Indium		Malachite	184	Olivine	183
in gold deposits	131	Maldonite	168	Omai placer deposit, Guiana	341
Inesite	183	Maldon gold district, Australia	289	Ora Banda, Australia	232
Iodargyrite	185	Manganese		Ore shoots in deposits	408
Iodine		in gold deposits	158	Orpiment	191
in gold deposits	158	Marcasite	188	Ouray district, Colorado	250, 275
Iron		Mariposite	182	Outpost Islands, Northwest Territories	248
in gold deposits	160	Marlu gold belt, Ghana	439	Ovens placer, Nova Scotia	374, 375
Jacobina gold deposits, Brazil	327	Matachewan Consolidated Mine, Ontario	296	Oxidation of gold deposits	431
Jacutinga, auriferous	341, 438	Matildite	190	Oxygen	
Jadeite	183	Mesozoic era	107	in gold deposits	149
Jamestown gold district, Colorado	295	Mercury		Paleozoic era	102
Japanese goldfields	268	in gold deposits	126	Paracale-Gumaus Mine, Philippines	267
Jarbidge gold deposits, Nevada	271	native	169	Paracale-Mambulao placer area, Philippines	342
Jarosite	185	Metallogenetic epochs	90-117	Paragonite	182
Johannsenite	183	Metallogenetic provinces	90-117	Paragonitization	210
Joseite	190	Mineral paragenesis in gold deposits	415	Passagem de Mariana gold deposit, Brazil	305
Junoite	191	Modern beach placers	371	Pay streak in placers	347
Kalgoorlie gold district, Australia	232, 256, 440	Molybdenite	190	Petzite	20
Kaolinite	183	Molybdenum		Philippines goldfields	267
Kasuga Mine, Japan	268	in gold deposits	154	pH in gold deposition	410
Keno Hill area, Yukon	437	Monazite	185	Phosphorus	
Kerr Addison Mine, Ontario	254	Mongolia, placers	370	in gold deposits	143
Kirghizia skarn deposits, U.S.S.R.	251	Montbrayite	20	Phosphatization	211
Kirkland Lake gold belt, Ontario	227, 291	Montmorillonite	183	Pilgrims Rest goldfield, South Africa	290
Kirkland Lake-Larder Lake gold district, Ontario	254	Morning Star Mine, Australia	298	Placer gold, origin	381
Klondike district placers, Yukon	351, 352	Morro Velho Gold Mine, Brazil	248, 305	Platinoids	
Klyuchi Mine, U.S.S.R.	299	Mother Lode, California	232, 256	in gold deposits	163
Kolar goldfield, India	261, 306	Moto gold district, Zaire	306	minerals	196
Kostovite	20	Mount Kasi Gold Mine, Fiji	267	native metals	169
Krennerite	20	Mount Morgan Mine, Australia, gold content of gossans	443	Pollucite	183
Kuranakh-type gold deposits, U.S.S.R.	307-342	Mount Nansen gold deposits, Yukon	437	Porcupine (Timmins) gold district, Ontario	232, 237, 254
Kushikino Mine, Japan	233, 268	Murchison Range gold district, South Africa	261	Porphyry copper deposits	
Kutnahorite	184	Muruntau deposit, Uzbek S.S.R.	243, 287	gold content of gossans	444
Kyuquot Sound, British Columbia	230	Muscovite, chromian	182	Potassium	
Lake City goldfield, Colorado	275	Muscovite, vanadium	182	in gold deposits	121
Lake of the Woods gold district, Ontario	253	Muthmannite	20	Precambrian era	90
La Luz Mine, Nicaragua	251	Nagyagite	20	Prospecting for gold deposits	
Lamaque Mine, Quebec	298	National gold deposits, Nevada	271	atmogeochemical methods	479
Lanthanum		Nauwigewauk auriferous conglomerate, New Brunswick	376	biogeochemical methods	476
in gold deposits	134	Needle Mountains goldfield, Colorado	275	general	446
La Plata goldfield, Colorado	275	Nephrite	183	geochemical methods, general	452
Laterite	56	Nevada City gold district, California	291	hydrogeochemical methods	469
Lead		New Calumet Mine, Quebec	250	indicator elements	452
in gold deposits	141	New Zealand, beach placers	374	lithogeochemical methods	453
native	169	New Zealand, glacial placers	374	miscellaneous methods	480
Lena Basin placers, U.S.S.R.	351	Niccolite	190	pedogeochemical methods	463
Lena goldfields U.S.S.R.	243	Nickel		selection of areas	446
Lena, Aldan and Amur placers, U.S.S.R.	368	in gold deposits	162	Propylitization	210
Leucoxene	195	Nickel-iron	169	Ptarmigan Mine, Yellowknife, N.W.T.	240, 280
Lily Mine, South Africa	439	Nickel Plate Mine, British Columbia	250, 436	Pueblo Viejo Gold Mine, Dominican Republic	444
Limonite	195	Niobium		Pyrite	185
Listwanitization	210	in gold deposits	149	Pyritization	210
Lithium				Pyromorphite	185
in gold deposits	118			Pyrophyllite	182
				Pyrophyllitization	211

Pyroxenes	183	Silver		Titanium	
Pyroxenitization	209	energetic properties	9	in gold deposits	142
Pyrrhotite	188	in gold deposits	123	Tonopah gold deposits, Nevada	271
Quadrilátero Ferrífero gold belt,		native	168	Topaz	183
Brazil	304, 341	Silverton goldfield, Colorado	275	Topazization	209
Quartz	169	Skarnification	208	Tourmaline	183
Radium		Smithsonite	184	Tourmalinization	209
in gold deposits	125	Sodium		Transbaikal gold-molybdenum belt,	
Raposos Mine, Brazil	305	in gold deposits	121	U.S.S.R.	299
Rare earths		South America gold deposits 90, 103, 108,	110	Tui Mine, New Zealand	233
in gold deposits	134	Sovetskoe gold deposit, U.S.S.R.	287	Tulameen River placers, British	
Rawhide gold deposits, Nevada	271	Specogna gold deposit, British		Columbia	359
Realgar	191	Columbia	309	Tungsten	
Red Lake gold district, Ontario	235, 253	Sphalerite	189	in gold deposits	155
Reefton gold deposits, New Zealand	247, 289	Sphene	183	Twangitza gold deposit, Zaire	300
Renabie Mine, Ontario	291	Spinel	194	Uchi Lake gold district, Ontario	232
Republic gold district, Washington	279	Spodumene	183	Uranium	
Rhenium		St. Anthony Mine, Ontario	237	in gold deposits	136
in gold deposits	160	Stibnite	189	Uraninite	195
Rhodesian gold belts	263, 306	Stream and river placers	352	U.S.S.R. Tertiary goldfields	268
Rhodochrosite	183	Stromeyerite	192	Uytenbogaardtite	22
Rhodonite	183	Strontium		Valencianite	182
Richardson Mine, Eldorado, Ontario	250	in gold deposits	124	Vanadinite	185
Rico goldfield, Colorado	275	Strontianite	184	Vanadium	
Rio Tinto, Spain		Sudan goldfields	263	in gold deposits	148
gold content of gossans	443	Sudbury Ni-Cu deposits, Ontario		Variscite	185
Rodalquilar district, Spain	233	gold content of gossans	441	Vatukoula goldfield, Fiji	267
Romanian gold deposits	263, 440	Suian skarn deposits, Korea	251	Vermilion River placers, Ontario	375
Roscoelite	182	Sulphosalts	193	Volynskite	190
Rosita Mine, Nicaragua	251, 436	Sulphur		Wad	195
Rosslund gold-copper district, B.C.	291	in gold deposits	149	Waihi gold district, New Zealand	265, 439
Round Mountain gold deposits, Nevada	271	native	167	Waioapu geothermal field, New	
Rubidium		Sunbeam Kirkland Mine, Manitoba	296	Zealand	239
in gold deposits	122	Supergene enriched gold deposits	435	Wairakei geothermal field, New	
Rutile	195	Taiwan goldfields	267	Zealand	239
Ruwe Mine, Zaire	310	Talc	182	Wall-rock alteration in gold deposits	
Sabie goldfield, South Africa	290	Talcification	211	general	207
Safflorite	190	Tantalum		porphyries, granitic bodies, etc.	214
Salsigne Gold Mine, France	285, 307	in gold deposits	149	skarn deposits	214
San Antonio Mine, Manitoba	234, 253	native	169	veins, lodes, etc.	215
San Juan gold belt, Colorado	275	Tanzanian gold districts	306	Wanakah Mine, Colorado	250
Scandium		Tarkwa goldfield, Ghana	326	Wavellite	185
in gold deposits	133	Tarnagulla goldfield, Australia	342	Whitehorse Copper Belt, Yukon	215
Scarsdale gold district, Australia	289	Telfer Mine, Western Australia	289	Wittite	191
Secondary enrichment of gold deposits	431	Tellurium		Witwatersrand gold deposits, South	
Scheelite	195	in gold deposits	151	Africa	313
Scorodite	185	native	168	Wolframite	195
Secretion theories of origin of gold		Telluride minerals	192	Wollastonite	183
deposits	394	Tellurobismuthite	190	Yellowknife gold district, Northwest	
Selenide minerals	193	Telluride goldfield, Colorado	275	Territories	215, 235, 240, 253, 280, 437
Selenium		Tennant Creek goldfield, Australia	306	Young Davidson Mine, Ontario	296
in gold deposits	150	Termites	56	Yttrium	
Sericite	182	Tetradymite	190	in gold deposits	134
Sericitization	209	Tetreatult Mine, Quebec	250	Zaire goldfields	263
Serpentine	183	Thallium		Zaruma gold district, Ecuador	275
Serpentinization	211	in gold deposits	132	Zeolites	183
Shinarump Group, Utah, auriferous	378	Thompson-Lundmark Gold Mine,		Zeolitization	211
Siberia, gold placers, U.S.S.R.	368	Northwest Territories	280	Zinc	
Siderite	183	Thorium		in gold deposits	125
Sideritization	210	in gold deposits	136	native	169
Sierra Nevada placers, California	364	Thucholite	166, 195	Zircon	183
Silicon		Tin		Zirconium	
in gold deposits	138	in gold deposits	140	in gold deposits	143
Silicification	209	native	169	Zoning in epigenetic gold deposits	415
		Tintic gold district, Utah	438		