

CONTENTS

Geoenvironmental models of mineral deposits--fundamentals and applications,	
by G.S. Plumlee and J.T. Nash	1
Bioavailability of metals, by D.A. John and J.S. Leventhal	10
Geophysical methods in exploration and mineral environmental investigations, by D.B. Hoover, D.P. Klein, and D.C. Campbell	19
Magmatic sulfide deposits, by M.P. Foose, M.L. Zientek, and D.P. Klein	28
Serpentine- and carbonate-hosted asbestos deposits, by C.T. Wrucke	39
Carbonatite deposits, by P.J. Modreski, T.J. Armbrustmacher, and D.B. Hoover	47
Th-rare earth element vein deposits, by T.J. Armbrustmacher, P.J. Modreski, D.B. Hoover, and D.P. Klein	50
Sn and (or) W skarn and replacement deposits, by J.M. Hammarstrom, J.E. Elliott, B.B. Kotlyar, T.G. Theodore, J.T. Nash, D.A. John, D.B. Hoover, and D.H. Knepper, Jr.	54
Vein and greisen Sn and W deposits, by J.E. Elliott, R.J. Kamilli, W.R. Miller, and K.E. Livo	62
Climax Mo deposits, by S. Ludington, A.A. Bookstrom, R.J. Kamilli, B.M. Walker, and D.P. Klein	70
Porphyry Cu deposits, by L.J. Cox, M.A. Chaffee, D.P. Cox, and Douglas P. Klein	75
Cu, Au, and Pb-Zn skarn deposits, by J.M. Hammarstrom, B.B. Kotlyar, T.G. Theodore, J.E. Elliott, D.A. John, J.L. Doebrich, J.T. Nash, R.R. Carlson, G.K. Lee, K.E. Livo, and D.P. Klein	90
Fe skarn deposits, by J.M. Hammarstrom, T.G. Theodore, B.B. Kotlyar, J.L. Doebrich, J.E. Elliott, J.T. Nash, D.A. John, and K.E. Livo	112
Polymetallic vein and replacement deposits, by G.S. Plumlee, M. Montour, C.D. Taylor, A.R. Wallace, and D.P. Klein	121
Au-Ag-Te vein deposits, by K.D. Kelley, T.J. Armbrustmacher, and D.P. Klein	130
Volcanic-associated massive sulfide deposits, by C.D. Taylor, R.A. Zierenberg, R.J. Goldfarb, J.E. Kilburn, R.R. Seal, II, and M.D. Kleinkopf.	137
Blackbird Co-Cu deposits, by K.V. Evans, J.T. Nash, W.R. Miller, M.D. Kleinkopf, and D.L. Campbell	145
Creede, Comstock and Sado epithermal vein deposits, by G.S. Plumlee, K.S. Smith, B.R. Berger, N. Foley-Ayuso, and D.P. Klein	152
Epithermal quartz-alunite Au deposits, by G.S. Plumlee, K.S. Smith, J.E. Gray, and D.B. Hoover	162
Epithermal Mn deposits, by D.L. Mosier and D.L. Campbell	170
Rhyolite-hosted Sn deposits, by E.E. Foord, R.A. Ayuso, D.B. Hoover, and D.P. Klein	174
Low-Ti iron oxide Cu-U-Au-REE deposits, by M.P. Foose and V.J.S. Grauch	179
Sediment-hosted Au deposits, by A.H. Hofstra, J.S. Leventhal, D.J. Grimes, and W.D. Heran	184
Almaden Hg deposits, by J.J. Rytuba and D.P. Klein	193
Silica-carbonate Hg deposits, by J.J. Rytuba and M.D. Kleinkopf	199
Stibnite-quartz deposits, by R.R. Seal, II, J.D. Bliss, and D.L. Campbell	204
Algoma Fe deposits, by W.F. Cannon, D.G. Hadley, and R.J. Horton	209
Sediment-hosted Cu deposits, by D.A. Lindsey, L.G. Woodruff, W.F. Cannon, D.P. Cox, and W.D. Heran	214
Sedimentary exhalative Zn-Pb-Ag deposits, by K.D. Kelley, R.R. Seal, II, J.M. Schmidt, D.B. Hoover, and D.P. Klein	225
Mississippi Valley-type Pb-Zn deposits, by D.L. Leach, J.B. Viets, N. Foley-Ayuso, and D.P. Klein	234
Solution collapse breccia pipe U deposits, by K.J. Wenrich, B.S. Van Gosen, and W.I. Finch	244
Superior Fe deposits, by W.F. Cannon, D.G. Hadley, and R.J. Horton	252
Sedimentary Mn deposits, by E.R. Force, W.F. Cannon, and D.P. Klein	257
Low-sulfide Au quartz vein deposits, by R.J. Goldfarb, B.R. Berger, T.L. Klein, W.J. Pickthorn, and D.P. Klein	261
Stratabound Au deposits in iron formations, by E.H. DeWitt, W.D. Heran, and M.D. Kleinkopf	268