

# Milka K. de Brodtkorb NOMMETALLIFEROUS STRATABOUND ORE FIELDS



## **Nonmetalliferous Stratabound Ore Fields**

**G Psacharopoulos** 

#### **Nonmetalliferous Stratabound Ore Fields:**

Nonmetalliferous Stratabound Ore Fields Milka K. de Brodtkorb, 1989-08-31 The series editor's foreword provides the opportunity to give the rationale for a series on the evolution of ore fields In brief it meets a need that I an explorationist perceived as I became involved in a multidisciplinary explo ration program in the late 1960s We were looking for mines while prospecting at the ore field scale The practicalities demand that we know more about the ore field and that we do not just study individual deposits the analogy being the three blind men who attempted to describe the elephant as they felt the trunk ear or leg Two considerations in identifying ore fields are the different perception as one changes scale from orebody to ore field and the problem of stratigraphic classification and nomenclature in terms appropriate to metallogenesis Two workers Brock 1972 and Carey 1976 have been particularly con cerned with the different appreciation brought about by a change in Critical Mineral Resources of the United States K. J. Schulz, John H. DeYoung, Robert R. Seal, Dwight C. scale Bradley, 2017 As the importance and dependence of specific mineral commodities increase so does concern about their supply The United States is currently 100 percent reliant on foreign sources for 20 mineral commodities and imports the majority of its supply of more than 50 mineral commodities Mineral commodities that have important uses and face potential supply disruption are critical to American economic and national security However a mineral commodity s importance and the nature of its supply chain can change with time a mineral commodity that may not have been considered critical 25 years ago may be critical today and one considered critical today may not be so in the future The U S Geological Survey has produced this volume to describe a select group of mineral commodities currently critical to our economy and security For each mineral commodity covered the authors provide a comprehensive look at 1 the commodity s use 2 the geology and global distribution of the mineral deposit types that account for the present and possible future supply of the commodity 3 the current status of production reserves and resources in the United States and globally and 4 environmental considerations related to the commodity s production from different types of mineral deposits The volume describes U S critical mineral resources in a global context for no country can be self sufficient for all its mineral commodity needs and the United States will always rely on global mineral commodity supply chains This volume provides the scientific understanding of critical mineral resources required for informed decisionmaking by those responsible for ensuring that the United States has a secure and sustainable supply of mineral commodities **Rock-forming Minerals** William Alexander Deer,1998 This volume deals with sulphates carbonates phosphates and halides incorporating recent advances in investigative techniques Each mineral chapter has sections on structure chemistry optical and physical properties distinguishing features and paragenesis Chapters are headed with brief tabulations of mineral data and a sketch of optical orientation Results are included from ocean floor experimentation and deep sea drilling New Publications of the Geological Survey Geological Survey (U.S.),1990 Sulfate Minerals Charles N. Alpers, John L. Jambor, D. Nordstrom, 2018-12-17 Volume 40 of Reviews

in Mineralogy and Geochemistry compiles and synthesizes current information on sulfate minerals from a variety of perspectives including crystallography geochemical properties geological environments of formation thermodynamic stability relations kinetics of formation and dissolution and environmental aspects The first two chapters cover crystallography Chapter 1 and spectroscopy Chapter 2 Environments with alkali and alkaline earth sulfates are described in the next three chapters on evaporites Chapter 3 barite celestine deposits Chapter 4 and the kinetics of precipitation and dissolution of gypsum barite and celestine Chapter 5 Acidic environments are the theme for the next four chapters which cover soluble metal salts from sulfide oxidation Chapter 6 iron and aluminum hydroxysulfates Chapter 7 jarosites in hydrometallugy Chapter 8 and alunite jarosite crystallography thermodynamics and geochronology Chapter 9 The next two chapters discuss thermodynamic modeling of sulfate systems from the perspectives of predicting sulfate mineral solubilities in waters covering a wide range in composition and concentration Chapter 10 and predicting interactions between sulfate solid solutions and aqueous solutions Chapter 11 The concluding chapter on stable isotope systematics Chapter 12 discusses the utility of sulfate minerals in understanding the geological and geochemical processes in both high and low temperature environments and in unraveling the past evolution of natural systems through paleoclimate studies. The review chapters in this volume were the basis for a short course on sulfate minerals sponsored by the Mineralogical Society of America MSA November 11 12 2000 in Tahoe City California prior to the Annual Meeting of MSA the Geological Society of America and other associated societies in nearby Reno Nevada The conveners of the course and editors of this volume of Reviews in Mineralogy and Geochemistry Alpers John Jambor and Kirk Nordstrom also organized related topical sessions at the GSA meeting on sulfate minerals in both hydrothermal and low temperature environments A Competitive Assessment of the U.S. Solid Wood Products Industry, 1984 U.S. Geological Survey Bulletin ,1983 New Publications of the U.S. Geological Survey Geological Survey (U.S.),1990 Marine Authigenesis Craig R. Glenn, Liliane Prévôt-Lucas, Jacques Lucas, 2000 **Geologic Studies** in Alaska by the U.S. Geological Survey During ...,1992 U.S. Geological Survey Bulletin Alison B. Till, Donald Edward Revista de la Asociación Geológica Argentina ,1992 White, M. E. Yount, J. R. Riehle, 1993 Mineralogical Magazine Festschrift zum 70. Geburtstag von Professor Dr. Hans-Jochen Schneider Klaus Germann, 1994 ,1990 Geotitles ,1990 Proceedings of the ... Quadrennial IAGOD Symposium International Association on the Genesis of Ore Deposits, 1993 Himalayan Geology ,2003 Proceedings of the Eighth Quadrennial IAGOD Symposium International Association on the Genesis of Ore Deposits. Symposium, International Association on the Genesis of Ore Deposits, 1993 Industrial Mineralogy Luke L. Y. Chang, 2002 For an undergraduate level course in industrial mineralogy This text bridges the gap between the basics of mineralogy and the applications of mineral based materials Over forty minerals and mineral groups are correlated among basic mineralogical properties geological occurrence distribution of deposits industrial processes and uses so that each industrial mineral is fully defined Industrial Mineralogy introduces students to the fundamentals of industrial

minerals as a foundation to build a professional career and provides professionals in mineral industries with a valuable reference for research and development Each mineral is characterized by crystal structure and chemical composition The two most basic and important properties that define the minerals industrial applications Each beneficiation process is described in basic terms rather than lengthy details Description of ore deposits including classic ones are cited because they represent standard occurrences Comprehensive references are given for each industrial mineral *Industrial Minerals P.* W. Harben, Miloš Kužvart, 1997

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