

Geological Features Of Alluvial Placers

This SME classic is both a reference book for the working engineer and a textbook for the mining student. This hardcover edition gives a brief history of surface mining and a general overview of the state of surface mining today--topics range from production and productivity to technological developments and trends in equipment. This extremely useful text takes the approach that exploration and mining geologists must be expert in a number of fields, including basic finance and economics, logistics, and pragmatic prospecting. Readers will find material on all these topics and more. The book's nine chapters include: Introduction, Exploration and Geology Techniques, Ore Reserve Estimation, Feasibility Studies and Project Financing, Planning and Design of Surface Mines, Mine Operations, Mine Capital and Operating Costs, Management and Organization, and Case Studies. The book is fully indexed. This book highlights the most prominent research on the Popigai meteorite crater (Siberia, Russia), the 6th largest known impact structure in the world. Not only does the crater have a diameter of roughly 100 km, it is also an estimated 35.7 million years old. This monograph is an updated, extended and revised edition of the Russian-language book "Diamond-bearing Impactites of Popigai

Read Free Geological Features Of Alluvial Placers

Astrobleme” and presents the most comprehensive research on the Popigai impact structure. The Popigai crater is unique in that the total amount of impact diamonds it contains exceeds all the other diamond-bearing provinces of the world. The work presented here is based on the geological mapping, core logging, geophysical survey and petrological studies of the crater, and was written by the team of geologists who first described the Popigai impact structure and its diamonds, and took part in the exploration of their deposits from 1970 to 1985.

A series of closely related earth-science studies that define the nature and severity of earthquake hazards associated with geologic conditions.

Covers placer deposits, mining and processing world wide.

Environmental And Engineering Geology is a component of Encyclopedia of Environmental and Ecological Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. The Theme on Environmental and Engineering Geology with contributions from distinguished experts in the field discusses matters of great relevance to our world such as: engineering and environmental geology, and their importance in our life. It also includes a discussion of some new applications of geoscience, such as medical geology, forensic geology, use of underground space for human occupancy, and geoinicators. These four volumes are

Read Free Geological Features Of Alluvial Placers

aimed at the following five major target audiences: University and College students, Educators, Professional practitioners, Research personnel and Policy analysts, managers, and decision makers and NGOs.

This book presents an overview of the fluvial processes theory developed in the former USSR at Lomonosov Moscow State University for the last 50 years, following the famous manuscript by Professor Makkaveev in 1955. Even being published solely in the Russian language, the theory and the author of the book, Prof. Roman Chalov, are well known in the World. This book consolidates for the first time in English, Chalov's work for the global audience. The book demonstrates how principles from fluvial geomorphology and hydrology are used to develop an ecosystem approach to river analysis and management. Despite a strong tradition in fluvial geomorphology work in the USSR, unfortunately, little has been made of insights provided on the international stage. The fluvial processes theory accepted in USSR was somewhat isolated during the long period of development from the English-language literature. The studied rivers are mostly located in Northern Eurasia and much different from those described in classical English-language works. Chalov allows the readers to interconnect two Worlds in Geomorphology, building bridges between the classical international geomorphology and the equally in-depth and thorough but isolated research in the USSR.

GOLD: History and Genesis of Deposits is the product of an effort by the Society of Economic Geologists to publish materials that will expand knowl edge

Read Free Geological Features Of Alluvial Placers

concerning timely, specific topics important to the study of economic geology and to economic geologists. A volume on gold was selected for a general review-type publication because of the importance of the gold mining industry in the 1980s. The officers and council of the Society of Economic Geologists authorized the preparation of this book on gold in 1981, and Dr. Robert W. Boyle was selected as its author. Dr. Boyle has extensive experience in the study of gold deposits. He has an international reputation and a broad interest and understanding of the gold mining industry, the origin of gold deposits, and the history of gold as a metal and ore from prehistoric times to recent. Dr. Boyle uses important publications on gold deposits as source materials to document the various pathways of geological thought over time to introduce the reader to modern concepts. The book contains a wealth of information concerning gold.

Developments in Economic Geology, 11: Geology of Tin Deposits focuses on the principles, methodologies, and approaches involved in the study of the geology of tin deposits. The book first tackles metallogenic provinces, primary tin deposits, and tin in the geochemical cycle. Topics include tin distribution, deposits associated with anorogenic granites and passive and/or batholithic magmatic environments, deposits related with terrestrial acid lava flows, classification of provinces and province analysis, and plate tectonics and tin provinces. The

Read Free Geological Features Of Alluvial Placers

manuscript then ponders on the relationship between granitoids and tin concentration, significant geological features of tin deposits and their application in search techniques, and observations on large low grade tin ores. Concerns include tonnage-grade curves of various deposit types, porphyry tin deposits, geochemical prospecting, vein analysis, tin distribution and concentration mechanisms in the igneous environment, and trace element specialization. The text takes a look at the transport of tin in the formation of ore deposits, mineralogy and aspects of the crystal chemistry of tin, aspects of secondary deposits, and economic and management considerations. The publication is a dependable reference for researchers interested in the geology of tin deposits. Supergene and Surficial Ore Deposits; Textures and Fabrics is a collection of papers that deals with economic geological deposits, particularly as endogenic type, or as an integral part of their geological environment. One paper explores the possibility that the evolution of ores of sedimentary affiliation or of sedimentary rocks and their chemistry during geologic history can be a product of the evolution of the outer spheres of the earth combined with a cycling phenomena that proceeds in a spiral way. Another paper discusses the role of climate on a large range of depositional environments through mobilization, both by chemical and physical events, of metal-ions. Mobilization can also occur by

Read Free Geological Features Of Alluvial Placers

controlled deposition and enrichment of the "mobilized" ions in a certain sedimentary environment. Various depositions occur in different climates, for example, bauxites, requiring higher precipitation levels, form in humid zones. One paper points that ore-mineral accumulations controlled by descending supergene solutions play a significant role in ore-mineral depositions. The collection is beneficial to geologists, industrial chemists, researchers, technical designers, and engineers whose works are related with ore deposits and mining.
[Copyright: 240299dd93e62084e474e9deb9b1aa33](#)