

# Copper ores

John Murray - Copper Ore



Description: -

-Copper ores

-Copper ores

Notes: At head of title: Imperial Institute. Monographs on mineral resources with special reference to the British Empire. Prepared under the direction of the Mineral Resources Committee of the Imperial Institute with the assistance of the scientific and technical staff.

This edition was published in 1923



Filesize: 43.11 MB

Tags: #Photos #of #Natural #Copper #Ore, #Copper #minerals, #Crystal #ores, #rich #copper

## Danafloat

The copper sulfate solution, called the pregnant leach solution, is then stripped of copper via a solvent extraction and electrowinning SX-EW process. The copper sulfides are precipitated also by hydrogen sulfide, which is generated by attack of acid solutions on several of these sulfides. The gangue sinks to the bottom of the tank to be removed or disposed of as mine tailings.

## Copper Mining and Processing: Processing Copper Ores

The size of the equipment needed to haul the tons and tons of ore is gigantic.

## Acid Leaching

Excess fines often must be removed and treated separately by agitation. The final product of the thickening stage is a combination of 30% copper and other metals; this copper concentrate is then sent to the smelter. The resultant products are water soluble.

## Copper Mining and Processing: Processing Copper Ores

Frothers are an important flotation reagent suite consideration.

## Danafloat

The bronze found in Troy contains a very little tin, and since this metal is not found in the excavations in the West, it seems probable that the bronze was made in Asia, perhaps in China or India, by some secret process, and imported to the western countries. Thus it was used for this purpose in Homeric times, and it is found in the lake dwellings of Switzerland.

## Copper Ore

Lotti has reported chalcopyrite, bornite and chalcocite in some ores.

## **Copper Mining and Processing: Processing Copper Ores**

Its melting point is 1083 C. If there is much lime carbonate in the gangue of the ore or in the wall rock, the downward migration of metallic sulfates may be checked. The anode slabs are hung in a large tank full of an electrolyte solution made of copper sulfate and sulfuric acid.

### **Acid Leaching**

**CHARGING THE TANKS** In charging tanks care must be taken to spread the charge evenly to avoid segregation as much as possible to reduce channeling of solution. Additional amounts can be returned for regeneration of ferric sulfate if solvent requirements for dissolution of sulfide copper makes it essential.

## Related Books

- [Menestreĭ - novicĭshiia poëzy.](#)
- [Marthas Vineyard - an elegy](#)
- [History of Buddhism - from extinction to expansion : an outline](#)
- [Randolph County, Georgia - a compilation of facts, recollections, and family histories](#)
- [Essay concerning the growth of empiricism, or the encouragement of quacks. ... By Fran. Guybon, M.D](#)