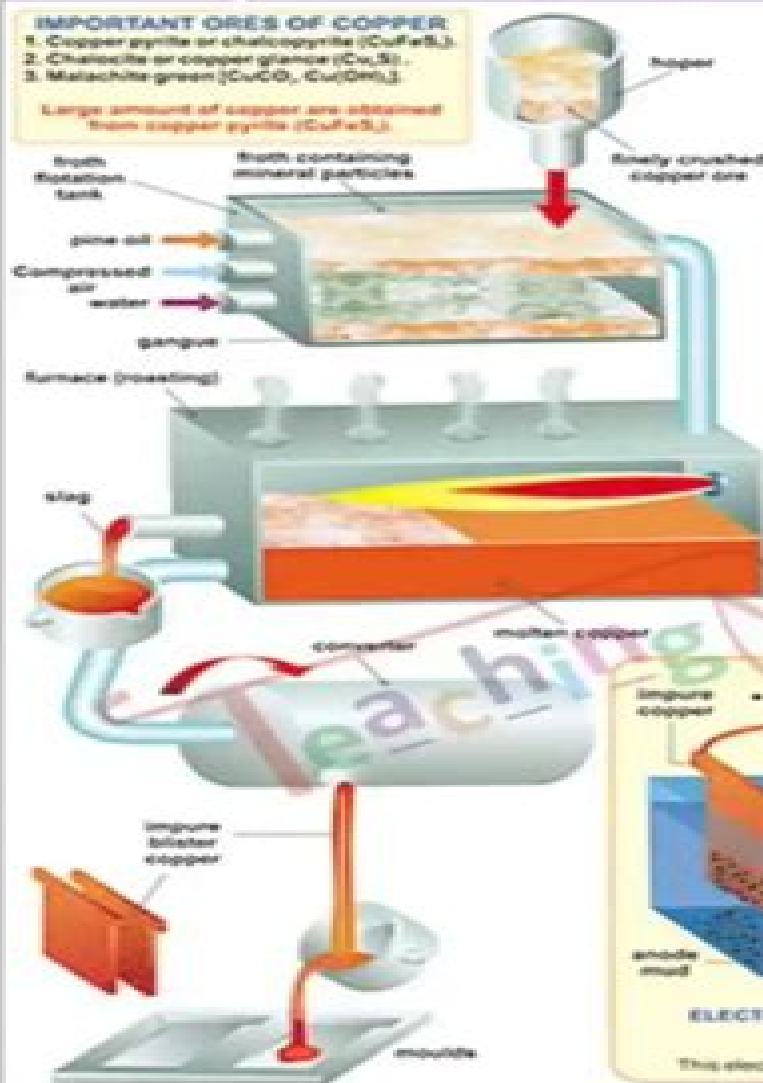


Copper Metallurgy

IMPORTANT ORES OF COPPER

1. Copper pyrite or chalcopyrite (CuFeS_2)
2. Chalcocite or copper glance (Cu_2S)
3. Malachite-green ($\text{CuCO}_3 \cdot \text{Cu(OH)}_2$)

Large amount of copper are obtained from copper pyrite (CuFeS_2).



CONCENTRATION

The finely crushed ore is concentrated by Froth-Flotation process.

ROASTING

Sulfur is oxidized to SO_2 and impurities of arsenic and antimony are removed as volatile oxides. The following reaction takes place:



Cuprous sulphide and ferrous sulphide are further oxidized into their oxides.



SMELTING

The roasted ore is mixed with coke and silica (sand) SiO_2 and is introduced into a blast furnace. The top air is blasted and FeO is converted into ferrous silicate (FeSiO_3).



FeSiO_3 (slag) floats over the molten matte of copper.

BESSEMERIZATION

Copper metal is extracted from molten matte through bessemerization. The matte is introduced into Bessemer converter. The air blown through molten matte. Blast of air converts Cu_2S partly into Cu_2O which reacts with remaining Cu_2S to give molten copper.

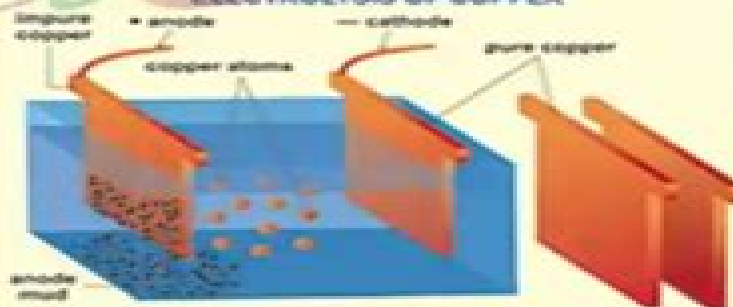


The copper so obtained is called "Blister Copper" as escaping CO_2 forms blister like formations.

REFINING OF COPPER

Blister copper is refined by electrolysis.

ELECTROLYSIS OF COPPER



ELECTROCHEMICAL CHANGES DURING ELECTROLYSIS



This electrically refined copper is 100% pure.

Uses of Copper

Computer Chip



Copper Door Knobs



Electric Wiring



Copper Tubing & Fitting



Copper Coins



Heat Sink



Metallurgy Of Copper

Robert H. Lamborn



Metallurgy Of Copper:

Extractive Metallurgy of Copper A. K. Biswas, W. G. Davenport, 2013-09-11 Extractive Metallurgy of Copper details the process of extracting copper from its ore. The book also discusses the significance of each process along with the concerns in each process such as pollution, energy demand, and cost. The text first provides an overview of the metallurgical process of copper extraction and then proceeds to presenting the step by step representation of the whole process of copper extraction. The coverage of the book includes mineral beneficiation, roasting, smelting, converting, refining, casting, and quality control. The text will be of great use to metallurgists, materials engineers, and other professionals involved in mining industry.

Metallurgy of Copper Heinrich Oscar Hofman, 1914 *Extractive Metallurgy of Copper* Anil Kumar Biswas, William George Davenport, 1976 **A rudimentary treatise on the Metallurgy of Copper. Being a concise introduction to the methods of seeking, mining, ... and smelting the ores of copper, etc** Robert H. Lamborn, 1860 Metallurgy of Copper Joseph Newton, Curtis Lee Laws, Wilson, 1942 **Extractive Metallurgy of Copper** William G. Davenport, Matthew J. King, Mark E. Schlesinger, A.K. Biswas, 2002-09-19 This new edition has been extensively revised and updated since the 3rd edition published in 1994. It contains an even greater depth of industrial information focussing on how copper metal is extracted from ore and scrap and how this extraction could be made more efficient. Modern high intensity smelting processes are presented in detail specifically flash, Contop, Isasmelt, Noranda, Teniente, and direct to blister smelting. Considerable attention is paid to the control of SO₂ emissions and manufacture of H₂SO₄. Recent developments in electrowinning, particularly stainless steel cathode technology, are examined. Leaching, solvent extraction, and electrowinning are evaluated together with their impact upon optimizing mineral resource utilization. The book demonstrates how recycling of copper and copper alloy scrap is an important source of copper and copper alloys. Copper quality control is also discussed, and the book incorporates an important section on extraction economics. Each chapter is followed by a summary of concepts previously described and offers suggested further reading and references. **A Rudimentary Treatise on the Metallurgy of Copper** Robert H. Lamborn, 1860 Extractive Metallurgy of Copper Mark E. Schlesinger, Kathryn C. Sole, William G. Davenport, 2011-09-02 William G. I. Davenport The Hydro-metallurgy of Copper Manuel Eissler, 1902 Metallurgy of Copper Heinrich Oscar Hofman, 2018-10-07 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America and possibly other nations. Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work. Scholars believe and we concur that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process and thank you for being an important part of keeping this

knowledge alive and relevant **The Chemistry and Metallurgy of Copper, Including a Description of the Principal Copper Mines of the United States and Other Countries, the Art of Mining and Preparing Ores for Market, and the Various Processes of Copper Smelting, Etc** Aaron Snowden Piggot, 2025-05-22 The Chemistry and Metallurgy of Copper by Aaron Snowden Piggot offers a comprehensive exploration of copper production in the mid 19th century. Detailing the principal copper mines of the United States and other countries, the book provides insights into the art of mining and preparing ores for market. Piggot meticulously describes the various processes of copper smelting, offering a detailed account of the technological practices of the era. This historical text is a valuable resource for understanding the industrial chemistry and metallurgical techniques employed during a period of significant technological advancement. It appeals to historians of science and technology as well as anyone interested in the historical context of mining and metal production. A fascinating glimpse into the past, shedding light on the processes that shaped modern industry. This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps, as most of these works have been housed in our most important libraries around the world, and other notations in the work. This work is in the public domain in the United States of America and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity individual or corporate has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant **Metallurgy of Copper** Joseph Newton, C. L. Wilson, 1942

Metallurgy of Copper (Classic Reprint) H. O. Hofman, 2015-06-29 Excerpt from Metallurgy of Copper. My aim in preparing this book has been to furnish a treatise on copper which will meet the demands of the metallurgist of today. In order to do this, it has been necessary to present the leading physical and chemical facts about the metal, its alloys, and its compounds, which are of metallurgical importance, to record from the older practice that which is of lasting value, and to give the details of the present modes of operating. Though we have several books treating of certain branches of the metallurgy of copper, such as the valuable volumes of Peters, Greenawalt, and others, there does not exist a modern book which covers the entire ground as the present work aims to do. In the study of processes, there are given the principles and the practice. The discussion of principles is confined to the essential points; for an extended presentation, the reader is referred to my treatise on General Metallurgy. The examples of practice are drawn mainly from the United States. The text and footnotes will show that the technical literature on copper has been covered. The details of practice not recorded in print have been obtained through visits to and detailed studies of the leading copper smelteries and refineries of the United States, additional

information has been available through correspondence The tables giving the working data of the leading plants of the United States Canada Mexico Germany and Australia show the extent of the field which has been covered In all my visits and correspondence I have met with the greatest cordiality and liberality I wish to express here my obligation to the heads and officers of the different smelteries and refineries for the assistance they have rendered me in my task without this cordial and liberal aid it would not have been possible to prepare this treatise In working out the details especially in the large number of calculations I have been much assisted by the collaboration of my colleague Professor C R Hayward The reading of the page proof by Professor G A Roush detected errata which had escaped my own revision About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at www.forgottenbooks.com This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

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Comparisons of ore to product and scrap to product carbon emissions are also made to illustrate the concepts included Describes copper mineralogy mining and beneficiation techniques Compares a variety of mining smelting and converting technologies Provides a complete description of hydrometallurgical and electrometallurgical processes including process options and recent improvements Includes comprehensive descriptions of secondary copper processing including scrap collection and upgrading melting and refining technologies

Extractive Metallurgy of Copper, Nickel, and Cobalt Metallurgical Society of AIME. Extractive Metallurgy Division, 1961

A Rudimentary Treatise on the Metallurgy of Copper Robert H. Lamborn, 2013-09 This historic book may have numerous typos and missing text Purchasers can usually download a free scanned copy of the original book without typos from the publisher Not indexed Not illustrated 1860 edition Excerpt is required in properly conducting this operation and great care is necessary in drawing the scraper along the surface of the metal so as not to take out any of the valuable lower stratum along with the slag When the workman by a want of attention allows copper to mix with the slags so that they hold more than about a quarter of a per cent he is compelled to resmelt them free of charge a regulation that serves as a check to secure his good working When the furnace is skimmed it is the usual plan to let down a second charge of ore and fuse and skim in the same manner as above before tapping the hearth to let out the matt When sufficient metal is collected the tapping is accomplished by breaking out the clay stopper and thus opening a communication between the lower part of the hearth and the exterior From this aperture the matt is run directly into a vat of water 6 or 8 feet deep and 4 to 5 feet square at the bottom of which is a box with a perforated bottom that receives the granules thus produced and which may be raised by a crane and the contents removed to the yard to dry ready for the next operation Another plan is to run the matt into moulds and thus form pigs which are stamped to a powder before going to process III Since at the time of throwing the ore into the furnace the hearth is at a high heat smelting soon sets in the sulphides of iron and copper are formed and sink to the bottom The silica combined with copper gives it up to the sulphur combines with the oxides of iron and other bases and rises to the top forming a distinct layer of slag The tin that may be present goes partly into the slag as an oxide while the antimony and arsenic combining with the copper are absorbed into the matt Where

Notes on the Prehistoric Metallurgy of Copper and Bronze in the Old World Herbert Henry Coghlan, 1975

A Rudimentary Treatise on the Metallurgy of Copper Robert H. Lamborn, 2017-07-27 Excerpt from A Rudimentary Treatise on the Metallurgy of Copper Being a Concise Introduction to the Methods of Seeking Mining Dressing Assaying and Smelting the Ores of Copper and Manufacturing Its Alloys Together With Historical and Statistical Notices of the Metal Muspratt's Chemistry applied to the Arts Phillips Manual of Metallurgy Napier in the London Dublin and Edinburgh Philosophical Magazine vols IV v Clark in Journal of Society of Arts 1858 Hunt's Mining Records Whitney's Metallic Wealth of the United States Kerl's Handbuch der metallurgischen Huttenkunde Zippe's Geschichte der Metalle Von Cotta's Lehre von den Erzlagern Bodemann's Anleitung zur Probirkunst Scheerer's Lehrbuch der Metallurgie Plattner's Vorlesungen über

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Metallurgy of Copper Hofman H. O.,1901

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