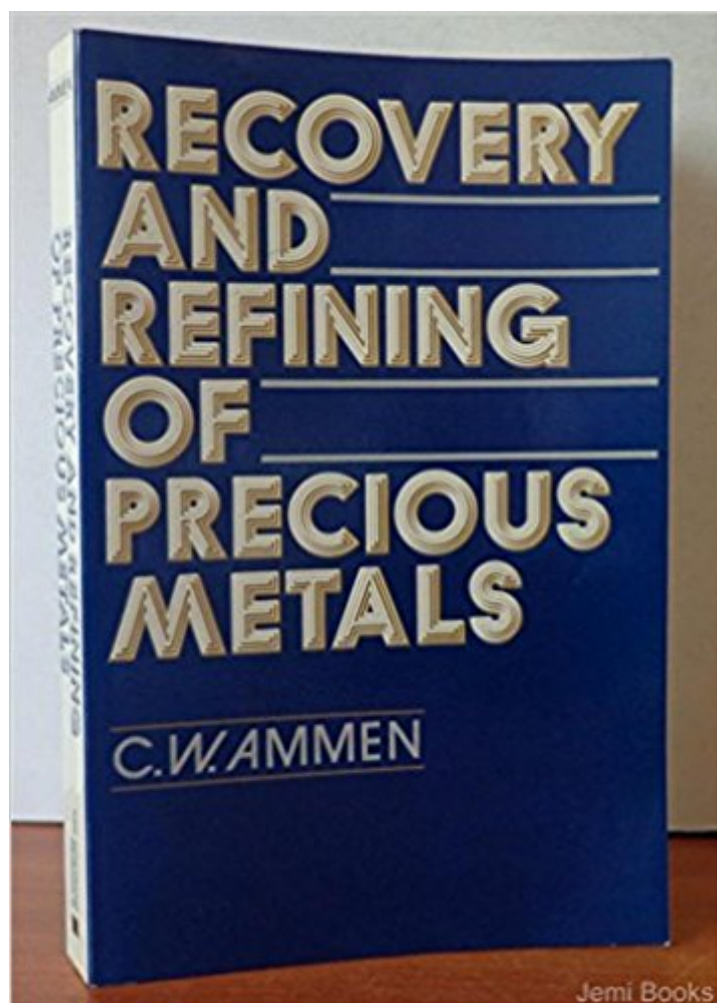


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# Recovery And Refining Of Precious Metals



## Synopsis

This book is the product of forty years of hands-on physiochemical work with both ferrous and nonferrous metals and with the metallurgy of refining, extracting, and casting. Its purpose is to cover the various methods of recovery and refining of precious metals. Both primary sources-placer gold, black sand, and ores-and secondary sources-scrap jewelry, electronic scrap, old films, buffings, spent plating and stripping solutions, catalytic automobile converters, and old eyeglass frames-are covered. The information contained in this volume is very basic and is intended for hands-on application and use. It is for nonchemist and chemist alike. I will not discuss the mathematical formulas for the various chemical reactions that take place-I leave them to the reader who wants to increase his working knowledge and understanding of chemistry. There are many courses offered in chemistry and extractive metallurgy, as well as a number of books available for self-study. The purpose of this book is to teach you how to perform various extractive, refining, and testing operations on precious metals (in various forms and states), with a resulting end product. You will learn how to perform operations in assaying and extraction, qualitative analysis, quantitative analysis, testing, classifying, and concentration-some of a purely mechanical nature, some of a chemical nature. Qualitative analysis involves the identification of an unknown material. To do this, you must have a plan of testing or attack. For example, --This text refers to an alternate Paperback edition.

## Book Information

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## Customer Reviews

For anyone who wants a great read about recovering metals- this is a good book! I would love to see more practical applications for recovery/recycle in a urban environment- but heck- the book is applicable where and how you use it! A word of CAUTION though- if you are thinking about using these reagents and some of the reactions in a home or residentially zoned area- have a waste tank and DO NOT USE the water/sewage system! Some of the chemicals can be toxic in watersheds, and they can trace certain impurities/additives through local pumping stations to your area.-Overall- this is an excellent book for teaching reactions and refining- in a college or advanced high school mind. I only gave it 4 out of 5 because I was a little dissapointed in the delivery of the information- but it is a STRONG 4 and a half stars!

Great Book a must have

Way over-priced for small paperback. Dissappointing with lack of detail.

I think it was stolen from a public library

No review as of yet. Trying to absorb the material before attempting the process. I am excited and look forward to refining my own metals!

It took me two years to obtain this book for it changed editor's houses several times in the near past. Yet, it was worth every efforts! The second edition is more thorough in it's common topics than the first edition, and contains new material. This book is worth every penny you'll spend on it and I bet that if you use it in the lab, you'll regret not being able to afford a second copy for safekeeping in your library. Whether you're a small time refining jeweller or a commercial gold refining operation, the book will not only give you applied recipes and procedures but also, stimulates your imagination with contemporary methods new ideas and an original conceptual approach to precious metal chemistry. It's a treasure trove of ideas and practical information for the non-chemist or the week-end basement-lab chemist who wants to learn the basics or the commercial operator who want to get new ideas on how to improve his bottom line. Although you could follow the recipes of this book blindly, it requires an elementary base in chemistry to fully appreciate Ammen's impressive knowledge. For teaching yourself the bases of chemistry, I recommend "Chemistry: The Central Science" by Brown, Bursten and Lemay as the perfect companion. It is by far the greatest ground-level chemistry book I've ever seen; it will take you painlessly, and with captivating style,

from the level of complete ignoramus to a level where you can be fully operational in basic chemistry. I wish all my basic science textbook had been that good. A comprehension of differential calculus is desirable but high school maths will more than suffice for the majority of the content, and certainly for most of the content related to precious metals chemistry. If you are not a chemist but had chemistry classes in high school or college, I suggest you throw away your old chemistry books and buy the pair ! If you intend to make precious metal chemistry your lucrative hobby, the pair of books will easily repay for themselves as much in enjoyment as in money.

Written in a clear and simple manner, this newly revised reference follows the great success of the first edition (referred to as the "Precious Metal Bible") with a complete overview of the recovering, testing, extracting, and refining of precious metals. Both primary sources - placer gold, black sand, and ores - and secondary sources - scrap jewelry, electronic scrap, old films, buffings, spent plating and stripping solutions, catalytic automobile converters, and old eyeglasses are covered. Based on the author's experience as a professional chemist and metallurgist, this second edition offers a wealth of new material, delving more deeply into solvent liquid extraction and many other topics, and thus yielding much greater insight into these subjects.

Very good. I fully satisfied due to seller kindness for price adjustment.

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