

**ASSAYING. IN THREE
PARTS. PART
1ST. - GOLD AND
SILVER ORES; PP. 1-105**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649065202

Assaying. In Three Parts. Part 1st. - Gold and Silver Ores; pp. 1-105 by C. H. Aaron

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd.
Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

www.triestepublishing.com

C. H. AARON

**ASSAYING. IN THREE
PARTS. PART
1ST. - GOLD AND
SILVER ORES; PP. 1-105**

California

ASSAYING.

IN

THREE PARTS.

PART 1st.—GOLD AND SILVER ORES; PART 2d.—GOLD AND SILVER BULLION; PART 3d.—LEAD, COPPER, TIN, MERCURY.

BY C. H. AARON, METALLURGIST,

AUTHOR OF

"TESTING AND WORKING SILVER ORES," "LEACHING GOLD AND SILVER ORES."

PART 1.



DEWEY & CO.,

PROPRIETORS MINING AND SCIENTIFIC PRESS,

SAN FRANCISCO, CAL., 1884.

[Co.yrighted.]

MISS EUGENIA SCHENK

TO

The Mining and Scientific Press.

OF

SAN FRANCISCO, CAL.,

THE STEADFAST FRIEND OF TRUTH AND PROGRESS
—AN HONEST PAPER,

THIS BOOK IS RESPECTFULLY DEDICATED
BY THE AUTHOR.

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and allows for easy verification of the data.

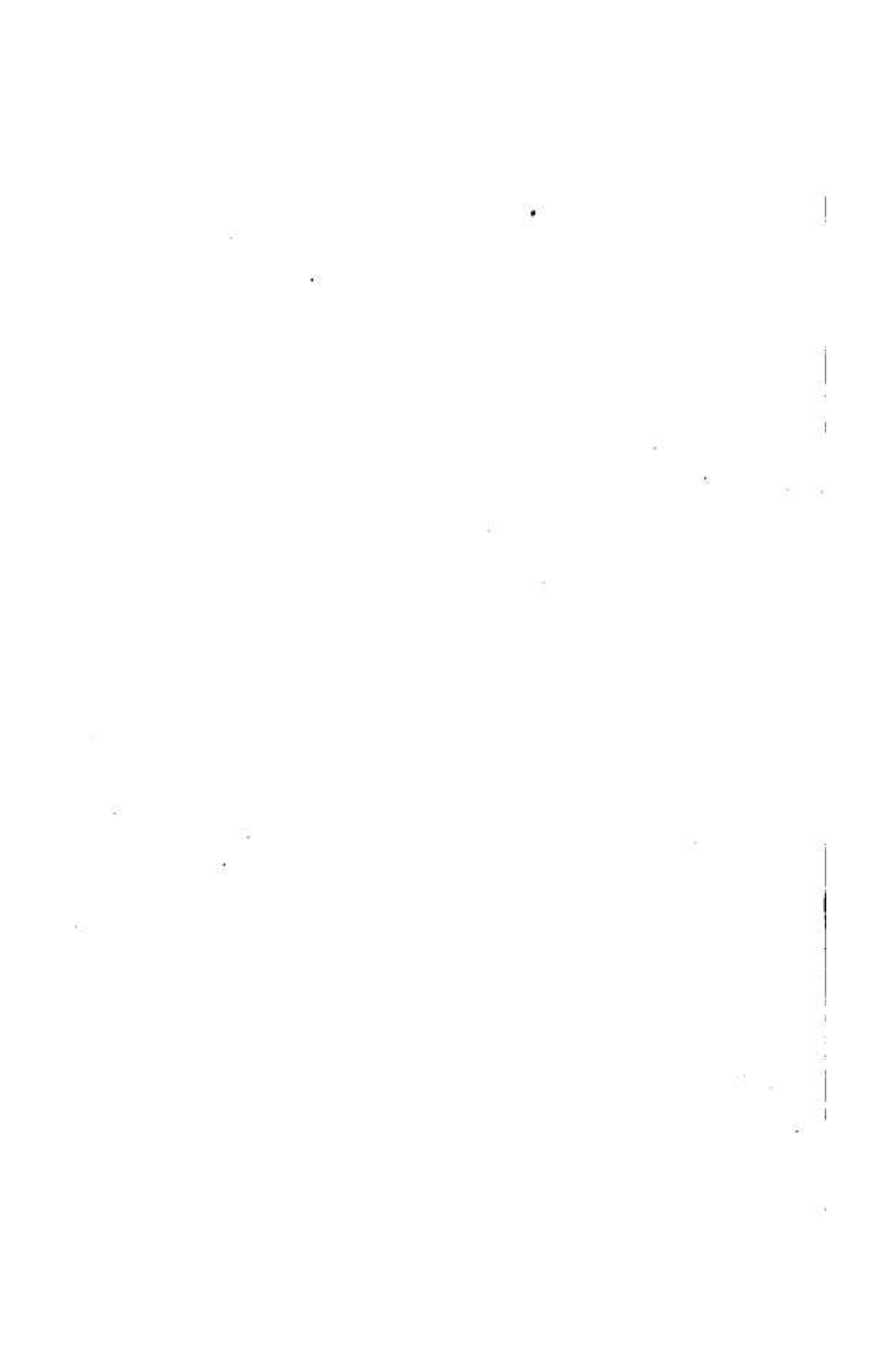
In the second section, the author outlines the various methods used to collect and analyze the data. This includes both primary and secondary data collection techniques. The analysis focuses on identifying trends and patterns over time, which is crucial for making informed decisions.

The third part of the report details the results of the study. It shows that there has been a significant increase in sales volume over the past year, particularly in the online market. This growth is attributed to several factors, including improved marketing strategies and enhanced customer service.

Finally, the document concludes with a series of recommendations for future actions. It suggests that the company should continue to invest in digital marketing and explore new product lines to further expand its market reach. Regular monitoring of key performance indicators is also advised to ensure ongoing success.

CONTENTS.

PREFACE	7
INTRODUCTION	9
Implements	12
Assay Balance	21
Materials	30
The Assay Office	36
Preparation of the Ore	38
Weighing the Charge	41
Mixing and Charging	42
Assay of Litharge	43
Systems of the Crucible Assay	44
Preliminary Assay	46
Dressing the Crucible Assays	48
Examples of Dressing	55
The Melting in Crucibles	58
Scorification	62
Cupellation	66
Weighing the Bead	71
Parting	74
Calculating the Assay	78
Assay of Ore Containing Coarse Metal	81
Assay of Roasted Ore for Solubility	84
To Assay a Cupel	84
Assay by Amalgamation	85
To Find the Value of a Specimen	86
Tests for Ores	90
A Few Special Minerals	95
Solubility of Metals	98
Substitutes and Expedients	100
Assay Tables	102, 104, 106



PREFACE.

THAT faults will be found in this book is beyond a peradventure. I shall find some myself *after* the printer has immortalized them, and my friends (and enemies) will discover others. But what can be expected of so humble an individual, when a celebrated scientist gives the sanction of his illustrious name to such a statement as this, "by weighing in this manner, by difference, the errors arising from inequality in the equilibrium, or *length of the arms*, are eliminated."—*Crookes' edition of Mitchell's Manual of Assaying, 1868*. The italics are mine.

Inequality in equilibrium looks paradoxical, but letting that pass as a harmless error, if error it be, the statement that weighing by difference, in the manner directed, can eliminate an error caused by inequality in the length of the arms of a balance, is itself an error so gross as to suggest the idea that Professor Crookes' may not have given personal attention to the article on weighing in the work quoted.

The present work was written nearly two years ago, but other engagements prevented its publication at that