Métallurgie Extractive Québec

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- “When I get a little money I buy books; and if any is left I buy food and clothes”. Erasmus (1467-1536)
Part 1- Historical Books
A facsimile English edition

First published in German in 1751, with an introduction by Fathi Habashi. ISBN 2-980-3247-3-6, 500 pages, $60 + postage. August 1998
Edited by Fathi Habashi

A collection of articles on the history of extractive metallurgy originally published in *History of Technology* between 1954 and 1958. The articles were edited and indexed to form a coherent textbook for educational purpose, with an introduction by the editor. 330 pages, 123 Figures.

**ISBN 2-980-3247-1-X**

$35 + Postage

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- Introduction
- From Early Times to the Fall of Ancient Empires
- The Mediterranean Civilizations and the Middle Ages
- From the Renaissance to the Industrial Revolution
- The Industrial Revolution
- The Late Nineteenth Century
- Name Index, Subject Index
This book is a supplement to the author’s book *A History of Metallurgy* which he edited in 1994. In the present work he records the changes in the metallurgical unit operations that took place over the centuries. Any metallurgist who does not grasp the historical background of his profession, its relation to the chemical industry, and its connection to today’s technology is missing a great deal in his or her education. The book is in 775 pages, illustrated by 490 Figures many of them in color, contains over 165 biographical notes of the scientists and engineers who contributed to this endeavour, and selected references in each chapter for further reading.

- ISBN 2-922686-02-7
- $ 95 + Postage
The book outlines the history of the school of mines, their outstanding teaching staff, and their distinguished graduates. They formed the foundation for the scientific and technical development of the mineral industry in all its sectors. Close to 600 pages illustrated with 350 figures and maps of which 72 are in colour, includes the history of 92 schools, over 400 biographies, and over 100 selected references.

Part I — General
Introduction
► Engineering Education and Mining Traditions
► Geosciences
► Chemistry, Metallurgy, and Metallurgical Chemistry

Part II — Schools of Mines in the Great European Empires
► Holy Roman Empire of the German Nation
► Spanish Empire
► Danish Empire
► Austrian Empire
► Russian Empire
► French Empire
► Swedish Empire
► Belgian Empire
► British Empire

Part III — Schools of Mines in Other European Kingdoms
Kingdom of Italy
► Prussia and the German Empire
► Romania
► Poland

Part IV — Schools of Mines in the Americas and the Far East
South America
► North America
► The Far East

Part V — Epilogue and Appendix
The book tells the story of the beginnings of chemistry and the extraction of metals from their ores, how these disciplines were reformed, developed, and became basic and applied sciences. In association with physicists, engineers, and technicians, chemists and metallurgists built the most terrible weapons of mass destruction. The book is in 365 pages with 220 illustrations, 30 of them in colour.

ISBN 2-922-686-00-0
Published September 2002
Price $70 + postage

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► Mythology
► The Four Elements
► Alchemy
► The Alchemists
► Reform in Chemistry, Mineralogy, and Metallurgy
► Discovery of Electricity
► Classification of the Elements
► The Modern Physics: Discovery of X-Rays
► Radioactivity: Chemistry and Physics United
► Uranium Fission
► Atomic Bombs

Name Index
Subject Index
In 160 pages the author tells the story of Ida Noddack, the distinguished chemist who discovered the metal rhenium in 1925 and predicted the “splitting” of the uranium atom in 1934. He relates the circumstances under which he met her and her husband Walter Noddack in 1955, and then met her again in 1969. The book is illustrated with numerous photographs, many of them in colour and contains facsimile of 12 letters and 4 historical papers by Ida Noddack.

ISBN 2-922686-08-6
Price: $ 35 + postage
Published February 2005
Extractive Metallurgy Today

A collection of lectures delivered by the author on his trips abroad. It also summarizes his researches during his association with Laval University. In a way, it is a scientific autobiography in 325 pages illustrated by 162 pictures of which 75 are in color.

Published April 2000
Price 90 + postage
ISBN: 2-9803247-8-7
Mining and Metallurgy on Postage Stamps

By: Fathi Habashi, David Hendricker, and Claude Gignac

Mining and Metallurgy on Postage Stamps is intended to give a historical background to mining and metallurgy by presenting about 900 enlarged reproductions of colored stamps from different countries. Explanations are given in simple language to bring these topics to young people, philatelists, and educators.

ISBN 2-980-3247-4-4. 320 pages

$ 250 + postage

Published June 1999

WINNER OF SILVER MEDAL
In a lecture delivered at the Consulate of Egypt in Montreal, the author explained that Egypt is one of the most ethnically homogeneous countries although she was invaded by many foreign armies. The country was known as the land of the Copts. Egypt is a unique country where two religious transformations took place: from paganism to Christianity and from Christianity to Islam. The official language of the country also changed twice: from Egyptian to Greek and from Greek to Arabic, although the population was speaking Coptic from about the fourth century BC to the thirteenth century AD. The Copts were persecuted by the Romans, the Arabs, and by the Mamelukes. They were considered heretics by the Byzantines. Their history is briefly told by the author in 92 pages, fully illustrated with colored pictures, published September 2006.

ISBN 2-922686-09-4
Can $ 10 + postage
Part 2 – Technical Books
In 475 pages incorporating 215 illustrations (50 in colour) and numerous tables, the reader can get a clear idea about what are metals, how they are enriched by natural processes in the Earth’s crust, how they are located by geophysicists, exploited by mining engineers, concentrated by mineral dressing engineers, and finally treated by extractive metallurgists to get pure metals for everyday life. The book also includes a short historical account, basic theory, and an appendix giving a summary of the extraction scheme of each metal as well as a list of audiovisual documents related to metal extraction.

ISBN 2-922686-04-3
Published August 2003
Price $80 + postage.

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Part 1. Metals and the Mineral Industry
Part 2. Mineral Beneficiation
Part 3. Extractive Processes
Part 4. Theory of Metallurgical Processes
Part 5. Appendix

FATHI HABASHI
Laval University, Quebec City, Canada, 2003
The book covers the general principles of solution chemistry, engineering aspects, and detailed studies of hydrometallurgical processes in 750 pages fully illustrated with drawings and photographs. It contains a selected list of over 250 review articles, proceedings volumes, and books directly related to the subject. Emphasis is laid on chemical reactions, equipment used, and flowsheets. ISBN 2-980-3247-7-9. Published July 1999. Price $50 + postage.

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The book describes systematically the thermal processes for the extraction of metals from their ores and their refining in a pure form. It includes a historical introduction, basic theoretical principles, and a selected list of references. 615 pages. ISBN 2-922686-05-1. Published August 2002. Price $70 + postage.

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Part III — Amalgam Metallurgy
- Mercury and Amalgams
- Formation, Decomposition, and Handling of Amalgams
- Applications
- Appendix — Major Electrometallurgy Plants
- Questions
This is a short account showing how technology changes to render the workplace in these industries more acceptable and to minimize pollution of the environment. The book is illustrated by 70 photographs and drawings and contains extensive bibliographic references. 150 pages. ISBN 2-980-3247-2-8. Published August 1996. Price $25 + postage.

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- Introduction
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- Aluminum Industry
- Treatment of Sulphide Ores
- Hydrometallurgical Processes
- Radioactive Ores
- Industrial Minerals
- Electroplating Industry
- Sources of Information
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The book covers the general principles of heterogeneous noncatalyzed reactions which are the basis of extractive metallurgy. ISBN: 2-980-3247-6-0, 376 pages, $50 + postage, September 1999

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- Homogeneous Reactions
- Physical and Physico-Chemical Processes
- Radioactive Decay

Part II — Heterogeneous Reactions
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KINETICS OF METALLURGICAL PROCESSES

By
Fathi Habashi
This book represents a collection of lectures delivered by the author on his trips abroad. It also summarizes his researches during his association with Laval University. In a way, it is a scientific autobiography in 325 pages illustrated by 162 pictures of which 75 are in colour.

ISBN 2-98032479-8
Published April 2000
Price $90 + postage.

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This handy and authoritative reference work provides essential information on alloys in one compact volume. Classification, properties, preparation, applications, and economic aspects are discussed for alloy steels, primary-metal alloys, light-metal alloys, and other alloy systems. The work is based on the effort of over 60 specialists, supplying hundreds of top-quality illustrations, diagrams, and charts and provides selected references for further study. An introductory overview of the subject is provided by the editor. 314 pages, ISBN 3-527-29591-7.

Published 1998 by WILEY-VCH. Now Available from Métallurgie Extractive Québec
Special price: Can. $ 30 + postage
177 pages.
Published in 1978.
Out of print.
Available only as photocopy for $40+ postage.
Published in 1973, 239 pages. Out of print. Available only as photocopy for $60 + postage

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   I.N. Maslenitsky, E.I. Maslenitskaya, and L.V. Chugaev

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6. **THE REDUCTION OF HALIDES—Electrolytic, Gaseous, and Metallothermic**
   F.A. Peretti
Published in 1995. Out of print, available only as photocopy for $40 + postage
Handbook of Extractive Metallurgy
Edited by Fathi Habashi

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Available from VCH-WILEY