A CLASS-BOOK OF INORGANIC CHEMISTRY WITH TABLES OF CHEMICAL ANALYSIS

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649035595

A Class-Book of Inorganic Chemistry with Tables of Chemical Analysis by D. Morris

Edited by Trieste Publishing Pty Ltd.
Cover @ 2017

www.triestepublishing.com

D. MORRIS

A CLASS-BOOK OF INORGANIC CHEMISTRY WITH TABLES OF CHEMICAL ANALYSIS

Trieste

A CLASS-BOOK

OF

INORGANIC CHEMISTRY:

WITH TABLES OF

CHEMICAL ANALYSIS,

AND DIRECTIONS FOR THEIR USE:

COMPILED SPECIALLY FOR

PUPILS PREPARING FOR THE OXFORD AND CAMBRIDGE MIDDLE-CLASS EXAMINATIONS, AND THE MATRICULATION EXAMINATION OF THE UNIVERSITY OF LONDON.

BY

D. MORRIS, B.A.

LATE TEACHER OF CHEMISTRY IN LIVERPOOL COLLEGE.

NEW AND ENLARGED EDITION.

LONDON:
GEORGE PHILIP & SON, 32, FLEET STREET.
LIVERPOOL: CAXTON BUILDINGS, SOUTH JOHN STREET;
AND 49 & 51, SOUTH CASTLE STREET.

1880.

PREFACE TO NEW EDITION.

In the present Edition the whole of the work has been carefully revised, and a considerable amount of new matter has been added. The additions include chapters on the Compounds of Carbon and Nitrogen, Light and Spectrum Analysis, the Diffusion of Gases, &c., while the number of Examination Questions on the various parts of the work has been largely increased. The chapter on the Solution of Chemical Problems involving arithmetical operations has been re-written and extended, and a number of selected typical problems are appended to it for solution by the student.

In that portion of the work treating of Practical Chemistry several important changes have been made. The list of apparatus required for simple Qualitative Analysis is new, and will, it is believed, be found to be a tolerably complete list of all that is required for that most essential part of modern chemistry —laboratory practice. Table I., for the preliminary examination of substances in the dry way, has been re-arranged with a view to greater simplicity and accuracy, while Table V., for the detection of the more important acids, is quite new.

The changes made in the present edition are calculated to render the work more useful for the purpose for which it was originally compiled, viz., to furnish students preparing for the University Examinations with a simple yet complete text book.

Liverpool.
September, 1880.

PREFACE TO FIRST EDITION.

THE following pages are simply enlarged notes of the most important facts of Inorganic Chemistry, which were originally culled from the best modern books on this subject for the use of the pupils under my charge. I have long felt the need of an Elementary Text-Book which should satisfy the requirements of the "Middle-Class Examinations;" and, to meet this want, I have compiled, in addition to the main facts of the science, Tables of Analysis of simple compound substances, with directions for their use, and Rules for sundry Arithmetical Exercises.

I strongly recommend to beginners in Qualitative Analysis the use of Table on page 180, on account of the simplicity of the method, as well as for the reason there stated.

The numerous Questions found in the work have been selected from the examination papers of Oxford, Cambridge, and London Universities, and the Science and Art Departments. The questions of the latter are denoted by * : those of the Universities, by the initial letter of each respectively.

My thanks are due to Dr. Carter, of the Liverpool School of Science, for many valuable hints and suggestions.

D. M.

LIVERPOOL,
Aug., 1870.

CONTENTS.