

**RADIOGRAPHY AND THE 'X'
RAYS IN PRACTICE AND THEORY,
WITH CONSTRUCTIONAL AND
MANIPULATORY DETAILS, PP. 1-
203**

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Radiography and the 'X' Rays in Practice and Theory, with Constructional and Manipulatory Details, pp. 1-203 by S. R. Bottone

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S. R. BOTTONE

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RADIOGRAPHY

AND THE "X" RAYS

IN PRACTICE AND THEORY

WITH CONSTRUCTIONAL AND MANIPULATORY DETAILS

BY

S. R. BOTTONE

AUTHOR OF "RADIUM" "ELECTRIC BELLS" "ELECTRO-MOTORS"
"ELECTRICAL INSTRUMENT-MAKING" ETC.

WITH FIFTY-FIVE ILLUSTRATIONS

SECOND EDITION, REVISED AND ENLARGED

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PREFACE



IN the following pages, an attempt has been made to give a clear and trustworthy account of the steps that have led up to the discovery and application of those electric waves that are now known as "X" rays. Every care has been taken to treat the subject with lucidity and accuracy, and to this end nearly every one of the statements made has been verified by personal experiment. Where this has been impossible of execution, the source of the statement, or the name of the experimenter, has been given. Considerable prominence has been given to constructional details and measurements, with the view of facilitating the student in making the apparatus necessary. No sensational matter, or far-fetched applications of radiography, insufficiently confirmed, have been admitted into this work; but full and at the same time clear explanations have been given, which, it is hoped, will render the subject easy of comprehension.

S. BOTTONE.

WALLINGTON.

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W. B. Bottone 1-17-31



PREFACE TO SECOND EDITION

IN this, the second edition, the more recent improvements, both in the make of the X-ray tubes themselves, and in the mode of using them to the best advantage with coils and Wimshursts, are carefully set forth; several points that conduce to the efficiency of coils are noticed in the sections devoted to constructional details; and much interesting matter connected with the therapeutic effects of the rays has been added. The probable cause of X-ray burns (dermatitis), and the means of avoiding these results, have received due attention. Mention is also made and illustrations given of the apparatus employed to produce "high frequency" effects.

S. BOTTONE.

WALLINGTON, 1906.

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