

**THE ROMANCE OF  
SCIENCE: RADIUM  
AND RADIOACTIVITY**

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The Romance of Science: Radium and Radioactivity by A. T. Cameron

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**A. T. CAMERON**

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AND RADIOACTIVITY**



*THE ROMANCE OF SCIENCE*

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# RADIUM AND RADIOACTIVITY

BY

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## PREFACE

IN this small volume an attempt has been made to deal with the most important facts of the science of Radioactivity in a manner simple enough to be understood by readers with a very elementary knowledge of Physics and Chemistry. The science is so intimately connected with these that no intelligent explanation can be given without assumption of a slight knowledge of general elementary science, and any attempt to impart this knowledge along with the treatment of the specific subject would not only result in a book far beyond the modest size of this volume, but is completely unnecessary in view of the many excellent treatises which already provide the desired information.

I have to acknowledge my extreme indebtedness to Madame Curie's *Traité de Radioactivité* in the compilation of this book.

Professor Swale Vincent and Dr. R. K. McClung have very kindly read through the manuscript of this volume, and I am indebted to them for numerous suggestions.

July, 1912.

A. T. C.

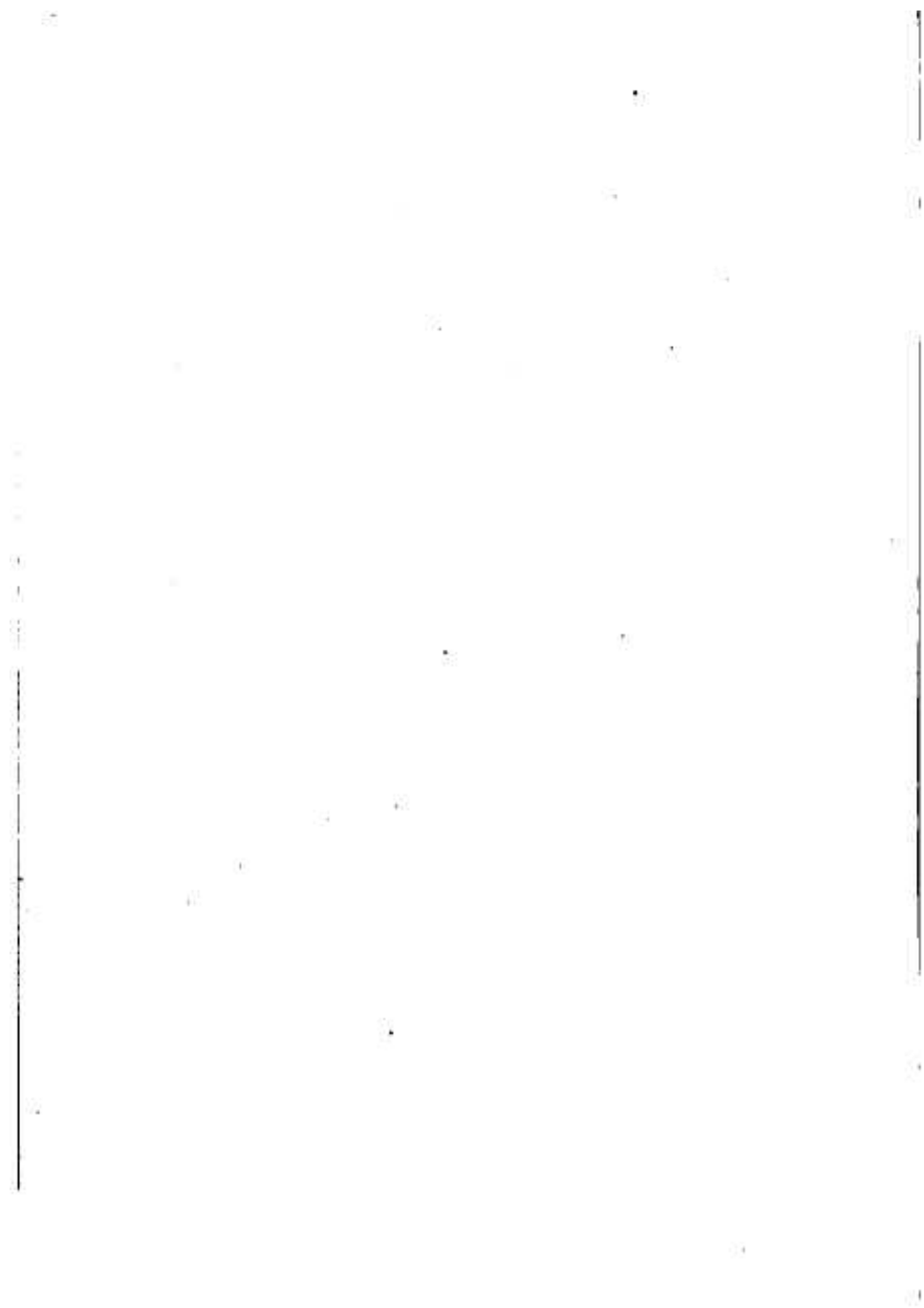
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## ERRATA

- Page 26, l. 7, *for* ionising *read* ionisation  
p. 32, l. 2 from foot, *for* lead, sulphide *read* lead sulphide  
p. 46, l. 5 from foot, *for* rarity *read* its rarity  
p. 51, l. 5 from foot, *for* H *read* Z  
p. 65, l. 20, *for* dissolves *read* decomposes  
p. 68, *read*  $p$  at top of diagram  
p. 74, note, *for* p. 159 *read* p. 105  
p. 81, l. 4 from foot, *for* radiations *read* radiation  
p. 86, l. 7 from foot, *for* was *read* were  
p. 87, l. 3, *for* amperes *read* ampere  
,, l. 17, *for* p. 94 *read* p. 107.  
p. 99, delete C from middle of diagram and insert C at foot  
p. 114, l. 4 from foot, *for* p. 57 *read* p. 44  
p. 135, l. 1, insert (?) in middle of dotted line on the left  
,, l. 12, *for* (Bismuth) *read* (? Bismuth)  
p. 143, l. 16, *delete* measured  
,, l. 17, *for* calories per hour, *read* calories per gram per hour,  
pp. 151, 153, headlines, *for* METHODS *read* CHANGES  
p. 151, l. 25, *for* p. 105 *read* p. 106  
p. 160, l. 18, *for* p. 52 *read* p. 53  
,, l. 23, *for* p. 50 *read* p. 51  
p. 167, l. 24, *for* not traceable *read* not wholly traceable  
p. 170, l. 1, *for* matter *read* the uranium  
p. 184, col. 2, l. 13, *for* 160 *read* 36  
,, col. 5, l. 11 to be one line lower, ranging with 3'86 (col. 4)  
,, col. 1, l. 15, *for* Mesothorium *read* Mesothorium<sup>1</sup>  
,, col. 1, l. 23, *delete* Thorium