

**AN INTRODUCTION  
TO THE SCIENCE OF  
RADIO-ACTIVITY**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649250349

An introduction to the science of radio-activity by Charles W. Raffety

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.

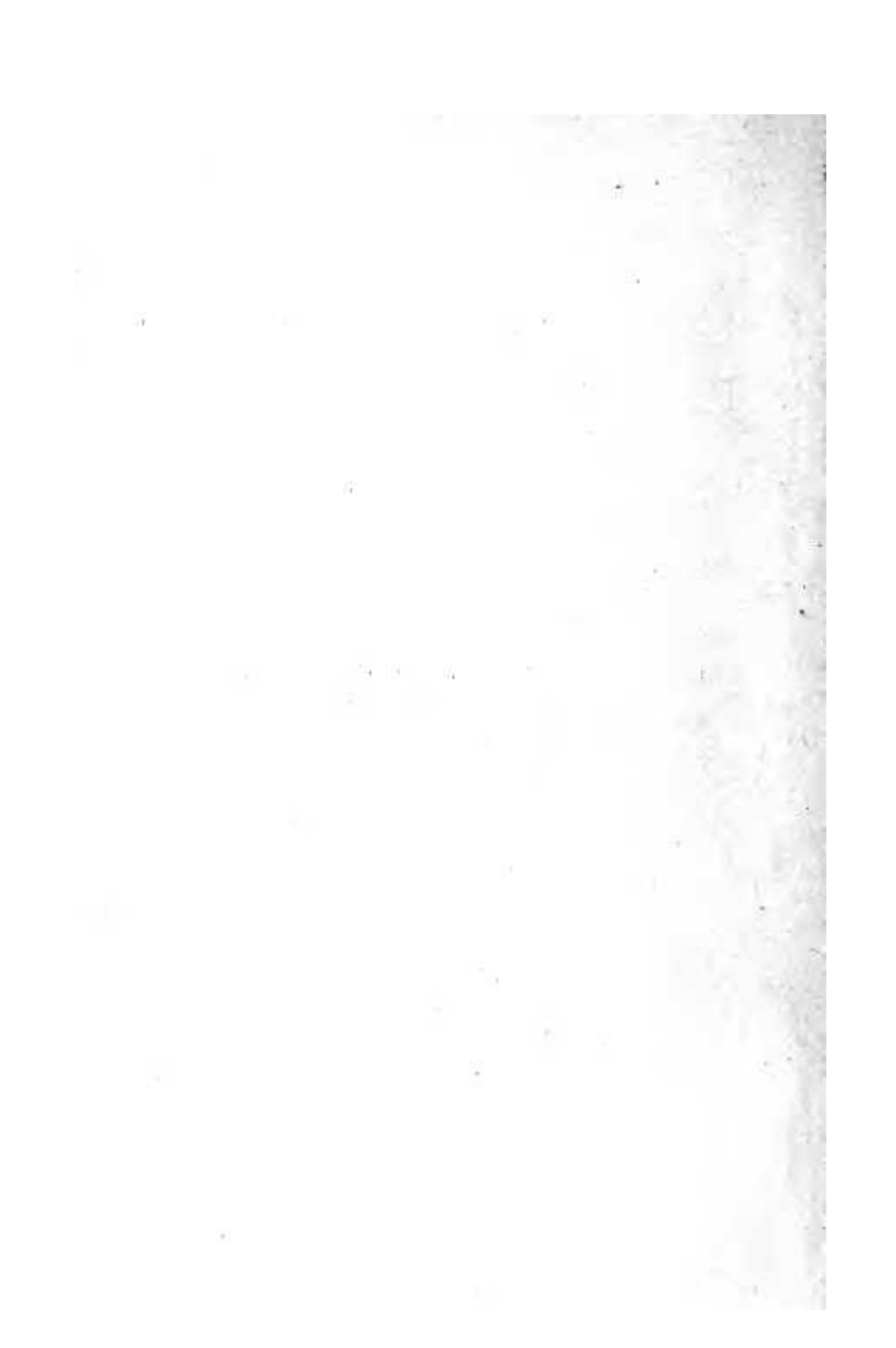
[www.triestepublishing.com](http://www.triestepublishing.com)

**CHARLES W. RAFFETY**

**AN INTRODUCTION  
TO THE SCIENCE OF  
RADIO-ACTIVITY**



AN INTRODUCTION TO THE  
SCIENCE OF RADIO-ACTIVITY



Phy  
R

AN INTRODUCTION TO  
THE SCIENCE OF  
RADIO-ACTIVITY

BY  
CHARLES W. RAFFETY



WITH ILLUSTRATIONS

LONGMANS, GREEN, AND CO.  
39 PATERNOSTER ROW, LONDON  
NEW YORK, BOMBAY, AND CALCUTTA

1909

*All rights reserved*

96975  
—  
26/6/1



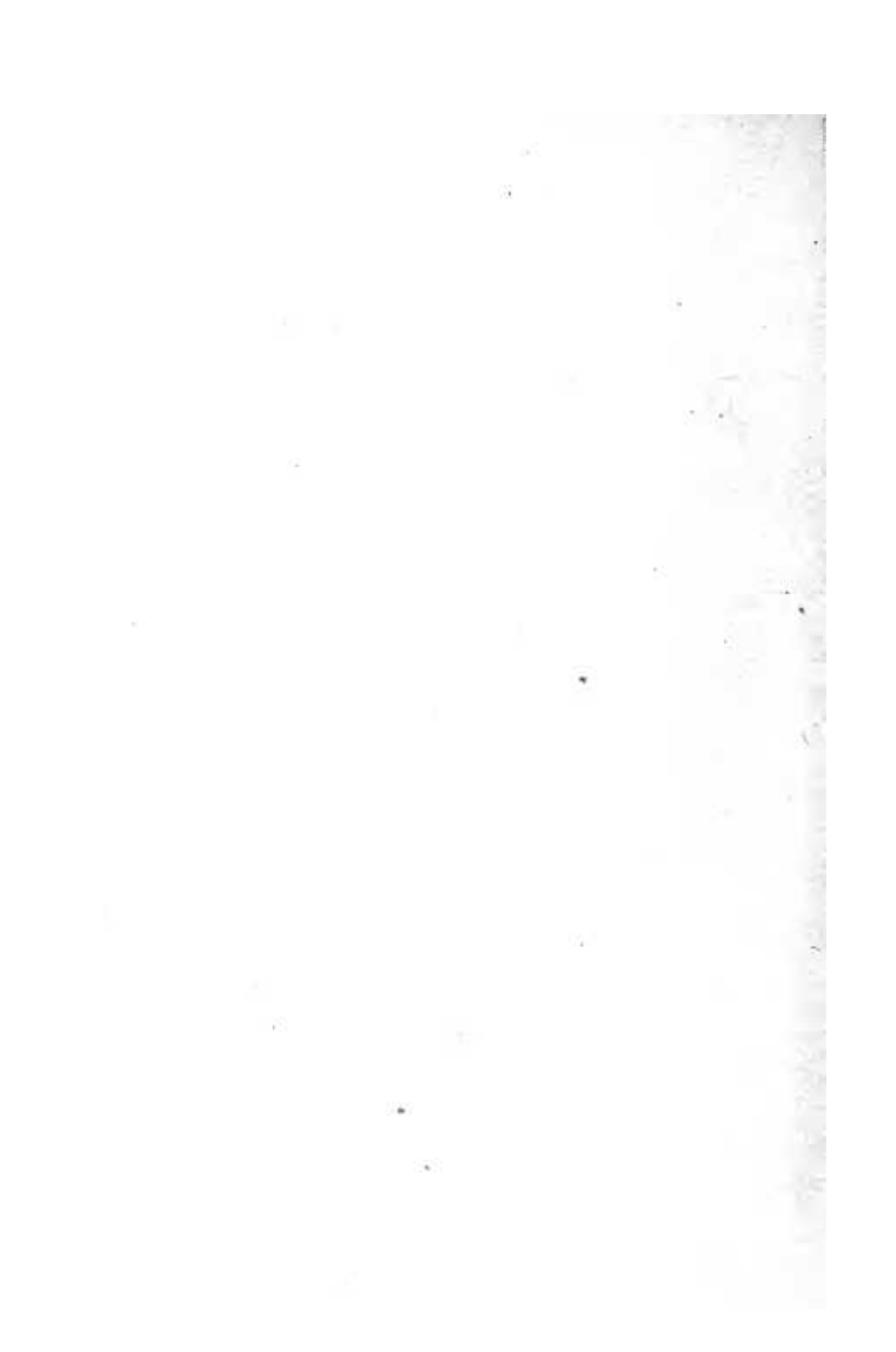


To

CLEMENT L. WRAGGE, Esq., F.R.G.S., F.R. MET. Soc.

TO WHOSE FRIENDSHIP AND ENCOURAGEMENT

THE AUTHOR IS MUCH INDEBTED.



## PREFACE

IN the following pages I have endeavoured to give a concise and popular account of the properties of the radio-active elements and the theoretical conceptions which are introduced by the study of radio-active phenomena. This work, as its title indicates, does not claim to be more than an introduction to the subject, and no attempt has been made at exhaustive treatment. Following what has appeared to me to be the most lucid method of presentation, I have divided the subject into three parts: descriptive, theoretical, and practical; the last being added in the hope that the comparatively simple experiments described may be of interest to those wishing to investigate for themselves some of the remarkable properties of the radio-active elements.

Frequent reference has been made to Professor Rutherford's treatise, and I am indebted to this valuable work for several numerical determinations. I also wish to express my thanks to Mr. F. H. Glew for the radiographs illustrating reversal by radium rays and secondary radiation.

CHARLES W. RAFFETY.

PURLEY,  
SURREY,  
*August 29, 1908.*