

RADIATION CHEMISTRY

GENERAL INTRODUCTION

BY T. S. DANTON

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The absorption by matter of electro-magnetic radiation in the wavelength range 2000-7000 Å is generally a simple process. The destruction of the energy quantum occurs in a single act involving the quantum and the absorbing molecule only, and is governed by well-recognized laws. The absorption is selective, the primary products of the absorption process can often be identified unambiguously, and are found to be of similar reactivity, and their rate of formation and spatial distribution can usually be specified with some exactness and certainty.

In these respects the primary photochemical act differs completely from the primary act in chemical reactions which are induced by the absorption of high energy quanta (say radiation $\lambda < 50 \text{ Å}$) or by the slowing down of rapidly moving charged and uncharged particles of atomic and subatomic nature. The mechanism of energy transfer from the radiation or the particles is complex, selective and imperfectly understood; it is not possible to make anything more than very approximate and qualitative predictions as to the number, nature and initial and final distribution of the entities formed in the primary process. Moreover, in the most important reaction medium, namely water, reactions initiated by one of the particles of the primary act may be reversed by one of the others. Despite the fact that at the turn of the century the development of radiation chemistry was comparable with that of photochemistry, the present status of the former subject is similar to that of photochemistry 30 years ago. At the present time the most useful conclusions as to the primary act are still obtained by inference from the nature of the ultimate products. The last few years have seen a considerable strengthening of this nexus due primarily to a greater understanding of the chemistry of free radicals and unstable ions, and it now seems that species of this kind must be intermediary between reactants and products.

The main purpose of this Discussion, which is the first to be held on this subject by the Faraday Society, is therefore to appraise the present position, to attempt what synthesis is possible of the views of the physicists, chemists and biologists who, for varying reasons, have contributed ideas and methods to the subject, and to suggest future lines of development. In the first three papers, the authors summarize some of the current ideas concerning the physical processes involved in the formation of the primary products. The lacunae in our knowledge of the mechanism of energy loss by fast charged particles are emphasized by Professor Spiers. We are still ignorant of the W values (i.e. energy required for creation of one ion pair) for liquids, and of the relation of the ionization potentials of the isolated molecules, which gain energy by inelastic collisions with the impinging particle, to this quantity W and the empirical quantity, the mean excitation potential $\bar{E}$ which is employed in the Bethe theory in its original and modified forms. Nevertheless we do know in qualitative terms how the mean ion density of commonly-used radiations varies with the energy, mass and atomic number of the fast particle. The conclusions reached here are still the foundations on which are erected all hypotheses concerning the dependence of the reaction product in both

Radiation Chemistry An Introduction

A. Mozumder, Yoshihiko Hatano



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Table of Contents Radiation Chemistry An Introduction

1. Understanding the eBook Radiation Chemistry An Introduction
 - The Rise of Digital Reading Radiation Chemistry An Introduction
 - Advantages of eBooks Over Traditional Books
2. Identifying Radiation Chemistry An Introduction
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Radiation Chemistry An Introduction
 - User-Friendly Interface
4. Exploring eBook Recommendations from Radiation Chemistry An Introduction
 - Personalized Recommendations
 - Radiation Chemistry An Introduction User Reviews and Ratings
 - Radiation Chemistry An Introduction and Bestseller Lists
5. Accessing Radiation Chemistry An Introduction Free and Paid eBooks
 - Radiation Chemistry An Introduction Public Domain eBooks
 - Radiation Chemistry An Introduction eBook Subscription Services
 - Radiation Chemistry An Introduction Budget-Friendly Options

6. Navigating Radiation Chemistry An Introduction eBook Formats
 - ePub, PDF, MOBI, and More
 - Radiation Chemistry An Introduction Compatibility with Devices
 - Radiation Chemistry An Introduction Enhanced eBook Features
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 - Highlighting and Note-Taking Radiation Chemistry An Introduction
 - Interactive Elements Radiation Chemistry An Introduction
8. Staying Engaged with Radiation Chemistry An Introduction
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Radiation Chemistry An Introduction
9. Balancing eBooks and Physical Books Radiation Chemistry An Introduction
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Radiation Chemistry An Introduction
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Radiation Chemistry An Introduction
 - Setting Reading Goals Radiation Chemistry An Introduction
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Radiation Chemistry An Introduction
 - Fact-Checking eBook Content of Radiation Chemistry An Introduction
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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