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PHYSICAL SCIENCES PAPER 2 (CHEMISTRY)

GRADE 12

TERMS & DEFINITIONS, QUESTIONS & ANSWERS PER TOPIC

2021



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center of mass always recoils after photon emission so that the term recoilless emission is in one sense misleading We emphasize that the essence of the Mossbauer effect is not photon emission without recoil but rather is photon emission without transfer of energy to internal degrees of freedom of the lattice Using the basic ideas of quantum mechanics namely the rules for the manipulation of probability amplitudes the so-called transformation theory we calculate the probability for recoil without excitation of internal degrees of freedom i e the Mossbauer f factor on the assumption that the individual photon emissions consequent lattice recoil are instantaneous In Appendix A we discuss this question of instantaneous emission in some detail and show how it is not in contradiction with the fact that the nuclear transition that leads to the gamma ray emission has a finite half width In Appendix B those rules of transformation theory that are used in the body of the paper are summarized

Author Fred Hoyle's Universe Jane Gregory, 2005-05-26 Fred Hoyle was one of the most widely acclaimed and colourful scientists of the twentieth century a down to earth Yorkshireman who combined a brilliant scientific mind with a relish for communication and controversy Best known for his steady state theory of cosmology he described a universe with both an infinite past and an infinite future He coined the phrase big bang to describe the main competing theory and sustained a long running sometimes ill tempered and typically public debate with his scientific rivals He showed how the elements are formed by nuclear reactions inside stars and explained how we are therefore all formed from stardust He also claimed that diseases fall from the sky attacked Darwinism and branded the famous fossil of the feathered Archaeopteryx a fake Throughout his career Hoyle played a major role in the popularization of science Through his radio broadcasts and his highly successful science fiction novels he became a household name though his outspokenness and support for increasingly outlandish causes later in life at times antagonized the scientific community Jane Gregory builds up a vivid picture of Hoyle's role in the ideas the organization and the popularization of astronomy in post war Britain and provides a fascinating examination of the relationship between a maverick scientist the scientific establishment and the public Through the life of Hoyle this book chronicles the triumphs jealousies rewards and feuds of a rapidly developing scientific field in a narrative animated by a cast of colourful astronomers keeping secrets losing their tempers and building their careers here on Earth while contemplating the nature of the stars

Sessional Papers, British Columbia British Columbia. Legislative Assembly, 1927 Compilation of annual reports of various governmental agencies **Proceedings of the Royal Society. Section A, Mathematical and Physical Science** Royal Society (Great Britain), 1914

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