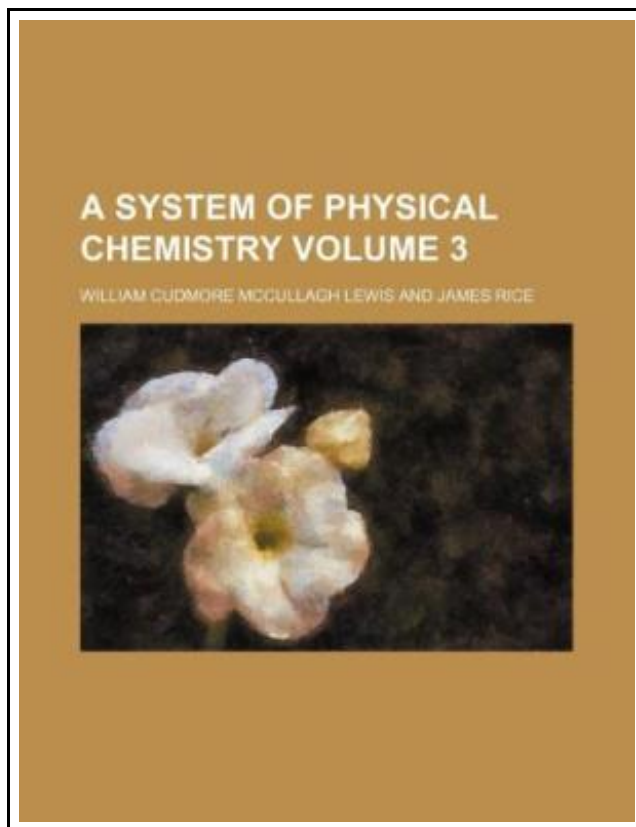


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Reviews

The book is great and fantastic. It is written in straightforward words and phrases rather than difficult to understand. You won't really feel monotony at any time of your respective time (that's what catalogues are for regarding should you question me).

(Payton Miller)

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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1919 Excerpt: .This seems necessary to account for the line spectra of substances containing more than one electron per atom. Further there may be stationary configurations of a system of n electrons and a nucleus of charge E in which all the electrons are not arranged in a single ring. As regards the stability of a ring of electrons, two problems arise. First as regards the stability for displacement of the electrons in the plane of the ring, and secondly, as regards displacements perpendicular to this plane. Nicholson has shown that the question of stability is very different in the two cases. While the ring for the latter displacements (displacements perpendicular to the ring) is in general stable, the ring is in no case stable for displacements in the plane of the ring. This conclusion is based upon classical electro-dynamics, and Bohr avoids the difficulty by making use of the quantum idea. In fact he shows that the stability of a ring of electrons rotating round a nucleus is secured through the condition of the universal constancy of the angular momentum h/nr of each electron together with the further condition that the configuration of the electrons is that in the formation of which--from free electrons and nucleus--the amount of energy, W , emitted is a maximum; in other words, the stable configuration possesses the least energy. That this assumption leads to the condition for stability may be shown as follows. Consider a ring of electrons rotating round a nucleus...



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