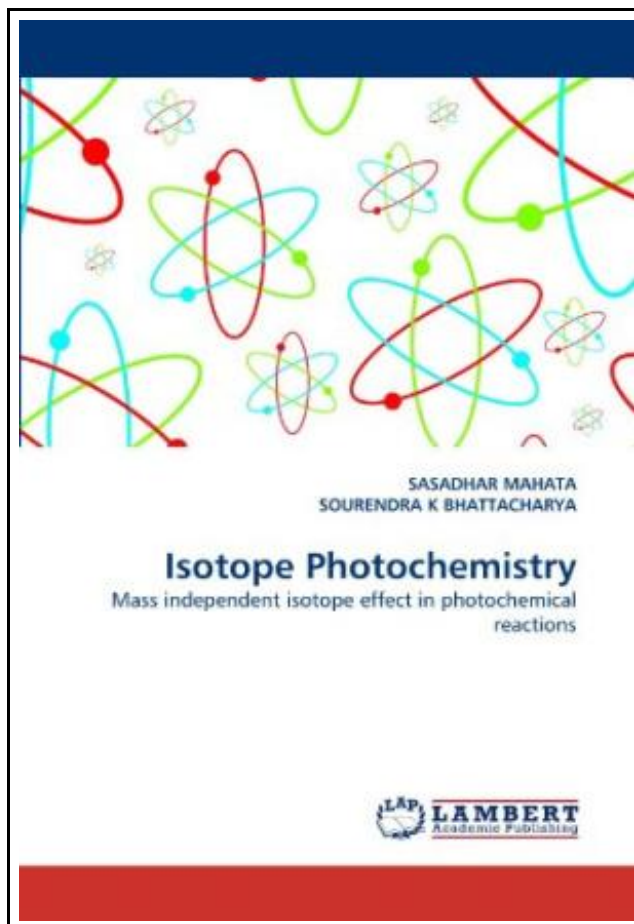


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LAP Lambert Acad. Publ. Jun 2010, 2010. Taschenbuch. Book Condition: Neu. 220x150x10 mm. Neuware - Oxygen and carbon isotope fractionation associated with products (CO and O<sub>2</sub>) of gas phase photodissociation of CO<sub>2</sub> have been studied using photons from Hg lamp (184.9 nm) and Kr lamp (123.6 nm and 116.5 nm). In dissociation by Hg lamp photons both CO and O<sub>2</sub> are enriched in <sup>17</sup>O by about 81 compared to the estimate based on a kinetic model. Additionally, CO is enriched in <sup>13</sup>C by about 37 relative to the model composition. In contrast, in dissociation by higher energy Kr lamp photons no such anomaly was found in O<sub>2</sub>. The observed isotopic enrichments in case of Hg lamp dissociation are proposed to be due to a hyperfine interaction between nuclear spin and electron spins or orbital motion causing enhanced dissociation of isotopologues of CO<sub>2</sub> containing <sup>17</sup>O and <sup>13</sup>C. The <sup>17</sup>O enrichment is higher than that of <sup>13</sup>C by a factor of 2.2±0.2 which can be explained by the known magnetic moment ratio of <sup>17</sup>O and <sup>13</sup>C due to differing nuclear spins and g-factors. These results have potential implications in studies of the planetary atmospheres. 168 pp. Englisch.



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