



At Astatine

By -

Springer. Paperback. Book Condition: New. Paperback. 292 pages. Dimensions: 9.6in. x 6.7in. x 0.7in. Astatine is - besides radon and francium - the only natural radioelement which only has short-lived isotopes, thereby excluding experiments with . . weighable amounts of the element. This implies that all available data on physics and chemistry of this element are 12 16 based on experiments on the tracer scale with 10- to 10- g - and this will also not change in future because no longer-lived isotopes as yet known are to be expected. Due to the fact that the only isotope of At occurring in the natural decay series, ^{219}At , results from the 0.005 a-branching of ^{223}Fr which itself is produced by the only 1.38 a-branching of ^{227}Ac - a member of the ^{235}U series - there is no chance to recover substantial amounts of ^{219}At from natural sources for scientific research of At. All studies, therefore, are being done with the isotopes ^{209}At to ^{211}At having half-lives in the few hours region and being obtained by irradiation of bismuth with α -particles via (α, xn) reactions or by proton irradiation of heavy elements via spallation reactions. The mostly used isotope is...



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