

## Symposium on Nuclear Data 2020

Ag102 12.9 m	Ag103 65.7 m	Ag104 69.2m	Ag105 41.29 d	<b>S</b> ymposium on	Ag107 51.839 %	Ag108 2.37 m	Ag109 48.161 %	Ag110 24.6 s	Ag111 7.45 d	Ag112 3.130 h
Pd101 8.47 h	Pd102 1.02 %	Pd103 16.991 d	Pd104 11.14 %	Pd105 22.33 %	<b>N</b> uclear	Pd107 8.36 s	Pd108 26.46 %	Pd109 11.700 h	Pd110 11.72 %	Pd111 33.4 m
Rh100 20.8 h	Rh101 3.3 y	Rh102 2.71 d	Rh103 100 %	Rh104 42.3 s	Rh105 37.95 h	<b>D</b> ata	<b>2020</b> Nov.	Rh108 3.0 m	Rh109 89 s	Rh110 3.3 s

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# Nondestructive Determination of Water Content in Concrete Using Am-Be Neutron Source - Experimental Verification - / Am-Be 中性子線源を用いたコンクリートの含水量非破壊測定法の実験的検証

*Thursday, 26 November 2020 17:06 (1h 44m)*

A new nondestructive measurement technique has been developed to evaluate the amount of water in concrete. A concrete wall is irradiated with fast neutrons to activate a gold foil set on the concrete. By evaluating in advance the relation of the gold activity and water content by calculations, we can determine the water content in the concrete, the water content of which is not known. In this study, to validate the present technique experiments were performed with concrete samples having different water contents, which were made from only cement and water. It was confirmed from the experiments that water content could be estimated by the present nondestructive measurement technique though the system is still simple with cement and water. Now we are examining the validity for concretes made from cement, water and sand.

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