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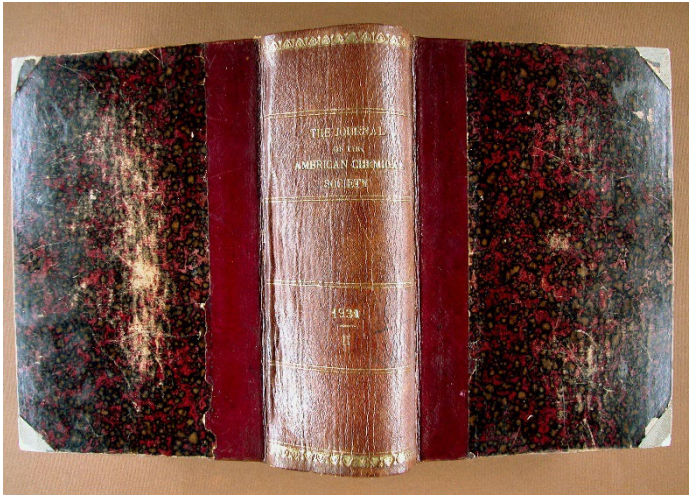

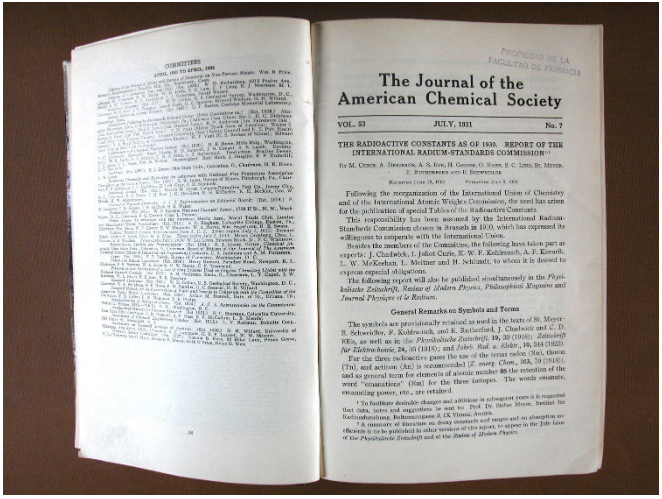

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THE RADIOACTIVE CONSTANTS AS OF 1930. REPORT OF THE INTERNATIONAL RADIUM-STANDARDS COMMISSION[1,2]

By M. Curie, A. Debierne, A. S. Eve, H. Geiger, O. Hahn, S. C. Lind, St. Meyer, E. Rutherford and E. Schweidler

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Following the reorganization of the International Union of Chemistry and of the International Atomic Weights Commission, the need has arisen for the publication of special Tables of the Radioactive Constants.

This responsibility has been assumed by the International Radium Standards Commission chosen in Brussels in 1910, which has expressed its willingness to cooperate with the International Union.

Besides the members of the Commission, the following have taken part as experts: J. Chadwick, I. Joliot Curie, K. W. F. Kohlrausch, A. F. Kovarik, L. W. McKeehan, L. Meitner and H. Schlundt, to whom it is desired to express especial obligations.

The following report will also be published simultaneously in the *Physikalische Zeitschrift*, *Revista y Modern Physics*, *Philosophical Magazine* and *Journal Physique et le Radium*.

General Remarks on Symbols and Terms

The symbols are provisionally retained as used in the texts of St. Meyer-E. Schweidler, F. Kohlrausch, and E. Rutherford, J. Chadwick and C. D. Ellis, as well as in the *Physikalische Zeitschrift*, 19, 30 (1918); *Zeitschrift für Elektrochemie*, 24, 95 (1918); and *Jahrb. Rad. u. Elektr.*, 18, 304 (1922).

For the three radioactive gases the use of the terms radon (Rn), thoron (Tn), and actinon (An) is recommended (*Z. anorg. Chem.*, 103, 79 (1918)), and as general term for elements of atomic number 86 the retention of the word "emanation" (Em) for the three isotopes. The words emanate, emanating power, etc., are retained.

[1] To facilitate desirable changes and additions in subsequent years it is requested that data, notes and suggestions be sent to: *Prof. Dr. Stefan Meyer*, Institut für Radiumforschung, Boltzmanngasse 3, IX Vienna, Austria.

[2] A summary of literature on decay constants and ranges and on absorption coefficients is to be published in other versions of the report, to appear in the July issue of the *Physikalische Zeitschrift* and of the *Revista of Modern Physics*.