

LOMONOSOV MOSCOW STATE UNIVERSITY
SOIL SCIENCE FACULTY

Tolpeshta I. I.

ALUMINUM COMPOUNDS IN SOILS

Manual

Recommended by the Educational-methodical commission
of the Faculty of Soil Science, Lomonosov Moscow State University
as a manual for students training
in the program track 06.04.02 - «Soil Science»



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The manual presents general information on the chemistry, pedochemistry, and geochemistry of aluminum, considers the main groups of aluminum compounds in the soil solid phase and the soil solution, as well as processes with the participation of mobile aluminum in the soils of humid extratropical regions.

Special attention is given to the toxic properties of aluminum compounds, as well as toxic effects and parameters for the estimation of the toxicity of aluminum compounds. Methods for the determination of toxic aluminum compounds in soil solutions and surface waters.

The manual can be used for the courses of lectures in Soil Science, Soil Chemistry, and Ecology.

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