

8. Magnetic Levitation of Concrete Tips (Video 16)

<Explanation>

A concrete tip (both density and mass susceptibility unknown) was put in a solution of gadolinium chloride (0.60 mol/kg) and this set was positioned where $B_z \cdot dB/dz$ becomes maximum. In this state, the specimen was made to assume magnetic levitation with the use of the magneto-Archimedes levitation method. The temperature was maintained at 10°C.

Video 16 shows the behavior of the specimen when the flux density is changed from 6.68 T to 7.50 T, photographed at intervals of 2 seconds. Levitation of the concrete tip starts at 6.72 T.

<Place of execution>

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