Die frühe Geschichte der Waagen mit elektromagnetischer und elektrodynamischer Kraftkompensation

Author Jenemann, H.R.

Die frühe Geschichte der Waagen mit elektromagnetischer und elektrodynamischer Kraftkompensation

In wägen + dosieren 26 (1995), Heft 2 pp. 12-18 + 4 pp. references

Size 11 pp., ill., 21 x 29.7 cm

Publisher Verlagsgesellschaft Keppler-Kirchheim mbH

Place Mainz Year 1995

ISBN ISSN 0342-5916

Abstract Today, the mechanical balances are mostly superseded by so-called electronic balances, working on different principles. The largest ratio of resolution to maximum load is obtained by means of electromagnetic or electrodynamic force compensation. Balances based on these principles passed already a long history, going back before to the middle of the last century, when the electrical measure instruments were still of low efficiency. Later on, balances with electric force compensation were used, besides the measurements of the electric power, likewise for other purposes, e.g. determination of electrical constants. Microbalances, precison balances and recording instruments were equiped by electro-magnetical and electrodynamical force compensation. Of the basis of such high precision instruments in the ninety-fiftieth, electronic balances were developed.

Remarks