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WEIGHTED LEAST-SQUARES POLYNOMIAL APPROXIMATION EMPLOYED TO RH SENSORS CALIBRATION POINTS

ABSTRACT *Weighted least-squares method was applied to derive polynomials which approximate the transfer functions of relative humidity (RH) sensors. The formulae for typical cases were discussed. The exemplary results were compared to the calibration equations obtained by the ordinary least-squares method and those presented in datasheets, and the conclusions were drawn.*

Keywords: *RH sensors calibration, weighted least-squares approximation*