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Determination of the deflection of the vertical by improving the elements of the normal Eötvös matrix

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The elements of the Eötvös matrix, usally determined by torsion balance measurements, are useful in several geodetic applications. We present a method for the computation of the elements of the normal Eötvös matrix at a point on the Earth's physical surface, resulting to an improvement in the determination of the deflection of the vertical at intermidiate points of a network.