Preface

Geodesy, in its practice and in solving problems, should always take into account the spatial variability of its points in time, which are directly or indirectly related to technical activities and geodynamics of the Earth. Even the reference data related to survey marks of survey control points as “invariable values” may change over time (additional modifications, corrections in geodetic bases and map projections, etc.). Since it is necessary that points and data related to them should always be in a geometric consistency (i.e., points are compatible) for the reliable functionality of geodetic controls, it is also necessary to verify, or rectify, this conformity according to the user needs and circumstances.

The present work is devoted to these issues for geodetic controls on a local scale. Issues of compatibility of points, whose coordinates are expressed as functions of time by specific equations with respect to basal positions of points at certain epochs (points in systems ITRS, ETRS, and others), are not considered and solved in given issues.

The work is dedicated to all professionals who need to examine practically the stability of fixed survey control points in their various local formations as well as to students of Geodesy fields of study. The topic of verification of condition of survey control points is currently, when geodetic controls are and will be realized by various technologies and from different data, very timely. We hope that the present work will be useful for surveyors and provide them a sufficient overview of this issue.

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