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Engineer's Field Book Standards and Specifications for Geodetic Control Networks Plane and Geodetic Surveying for Engineers: Higher surveying Encyclopedia of Geodesy Optimization and Design of Geodetic Networks

The past few decades have witnessed the explosive growth of Earth Sciences in the pursuit of knowledge and understanding the planet Earth. Such a development addresses the challenging endeavour to enrich human lives with bounding Nature as well as to preserve the Planet Earth, the Moon, the other planets, in total the Cosmos, for generations to come. Geodetic Sciences aspires to define and quantify the internal structure, the surface structure, the Oceans and the Atmosphere as well as the exterior - interior structure of the planets. Basic principles of Physics and Astronomy, namely the Static Gravity Field, the time-varying Gravity Field, in short Gravitodynamics, of the Earth and the other planets, the complex rotational motion for rigid bodies as well as deforming bodies of the Earth, The Moon, the Sun, and the planets and their moons and on top the time-varying Topography open a fascination Arena of Geodetic Sciences. During the period April 25th to May 10th, 1984 the 3rd Course of the International School of Advanced Geodesy entitled "Optimization and Design of Geodetic Networks" took place in Erice. The main subject of the course is clear from the title and consisted mainly of that particular branch of network analysis, which results from applying general concepts of mathematical optimization to the design of geodetic networks. As al ways when dealing with optimization problems, there is an a-priori choice of the risk (or gain) function which should be minimized (or maximized) according to the specific interest of the "designer", which might be either of a scientific or of an economic nature or even of both. These aspects have been reviewed in an intro ductory lecture in which the particular needs arising in a geodetic context and their analytical representations are examined. Subsequently the main body of the optimization problem, which has been conven tionally divided into zero, first, second and third order design problems, is presented. The zero order design deals with the estimability problem, in other words with the definition of which parameters are estimable from a given set of observa tions. The problem results from the fact that coordinates of points are not univocally determined from the observations of relative quantities such as angles and distances, whence a problem of the optimal choice of a reference system, the so-called "datum problem" arises.

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