ANNOTATION

Books 3 of part 1. Engineering Geodesy of Applied Geodesy present the essence, tasks and role of Engineering Geodesy in the design, tracing, construction and operation of specific types of engineering objects - linear objects, buildings, facilities, and installation of technological equipment, plans, models and information systems of the built complex sites, etc.

Due to the versatility of the treated problems and the large volume of exhibited material, exceeding 1500 computer pages, book 3 is divided into three books - 3 (3.1), 3 (3.2) and 3 (3.3).

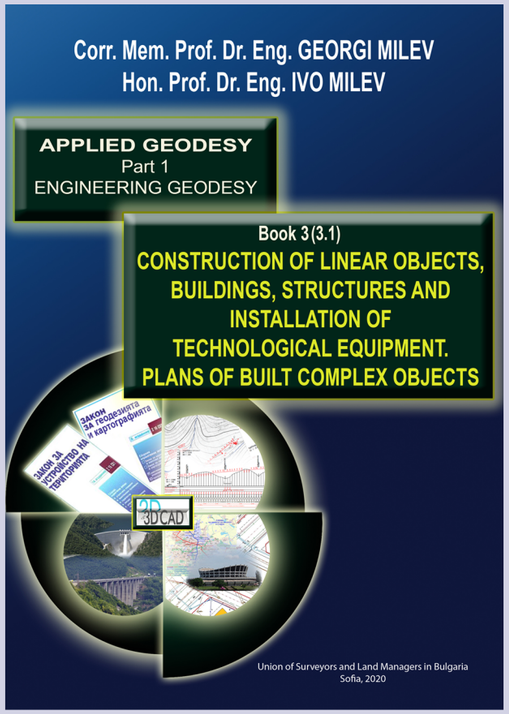
Book 3 (3.1) presents the design, construction, operation and reconstruction of linear objects and the peculiarities of geodetic works on railways, roads, energy supply sites, communications, water supply and sewerage, cableways, as well as tunnels and subways.

Book 3 (3.2) includes problems related to the design, construction and installation of facilities on other linear sites, e.g. bridges, as well as geodetic methods and technologies for tracing and control measurements and the study of their deformations. These problems are also presented at hydrotechnical sites, built independently or in complexes of engineering ones - dams, cascades, etc., as well as hydro-ameliorative sites, river corrections, floods and droughts and ports.

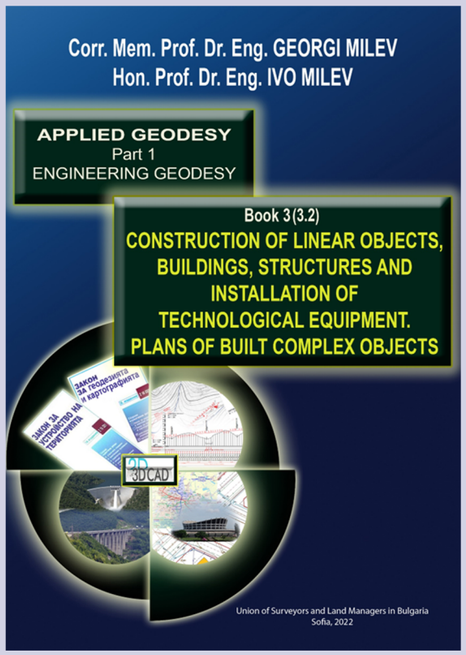
Book 3 (3.3) presents the study, design, tracing and control, and study of deformations in the construction, installation and operation of buildings, industrial facilities and technological equipment, installation of machinery for various purposes, as well as sites for civil purposes - airports, sport, high facilities, etc. The making of the plans and modeling of the constructed sites - BIM and the cadastre of communications of complexes of engineering sites and relevant information systems, respectively - Specialized data (model) of underground communications, and other engineering aspects of application are presented further.

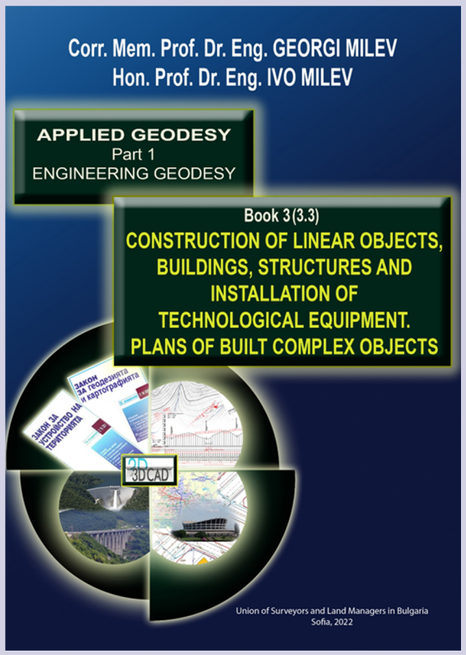
For the various sites, in the exposition 3 (3.1), 3 (3.2) and 3 (3.3), first of all, brief, specific information about their nature, construction, requirements, normative base and peculiarities is given. Thus, among other things, up-to-date engineering information and terminology are used and specialists speak the same language, especially since the issues under consideration are interdisciplinary.

REVISED BOOK 2022



NEW BOOKS 2022





The structure of the books is original. The exposition is in accordance with the accepted way of exposition in books 1 and 2 of the authors, with the current regulatory framework and the opportunities offered by modern digital devices, tools, systems and technologies. It largely reflects the views, many years of research, teaching experience, participation in the construction and study of deformations of engineering objects, including those with original spatial design solutions, implemented with the participation of the authors.

Books 3 (3.1), 3 (3.2), 3 (3.3) are intended for professionals working on the construction (research, design, construction, installation) and operation of various engineering sites and complexes of them. Also for lecturers, doctoral students, students in the field of "Architecture, Civil Engineering and Geodesy", etc., as well as for practitioners in the field of construction, architecture, spatial planning and engineering geodesy.

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