

Annotation

Interdisciplinary problems related to the development of territories – development schemes, physical and general plans of a complex of objects – industrial enterprises, airports, etc., are presented along with the role of geodesy and the contribution of land surveyors to their realization. The major emphasis is laid on the technology of design and implementation of regulation plans, general plans and schemes and drafts for vertical planning. Moreover the problems are treated from an interdisciplinary point of view and in the context of the modern possibilities of: digital design, geospatial technologies, using of global navigation satellite systems, electronic systems for data measurement and processing, tracing and monitoring, geoinformation systems, use of modern digital cadastre and others. Along with this the exposition is based and reflects, insofar as possible, the huge current normative and subordinate basis – laws, rules, regulations, instructions, guidelines, etc., and it has become necessary in some cases to cite directly some major aspects of it. However this basis is dynamically developing and its actual state should be always accounted for. A number of real practical examples of physical planning of territories are also included. The long-year work and experience of the authors are also reflected.

Undoubtedly such a broad spectrum of issues cannot be exhaustively considered in all its aspects. A balance has been sought for in the structure of the book and exposition to present the main problems and the emphasis is put on the aspects related more directly to the activities of surveyors in the area of physical planning.

The book is intended primarily for surveyors. However, because of the interdisciplinary nature of the problems and the manner of exposition, it can be very useful for a broad circle of specialists – architects, engineers, lawyers and others working on the issues of physical planning. The benefits may be for the lecturers and all studying these problems, workers in the municipalities and courts, and in the design and construction in this area, owners of land estates and many others.

The authors

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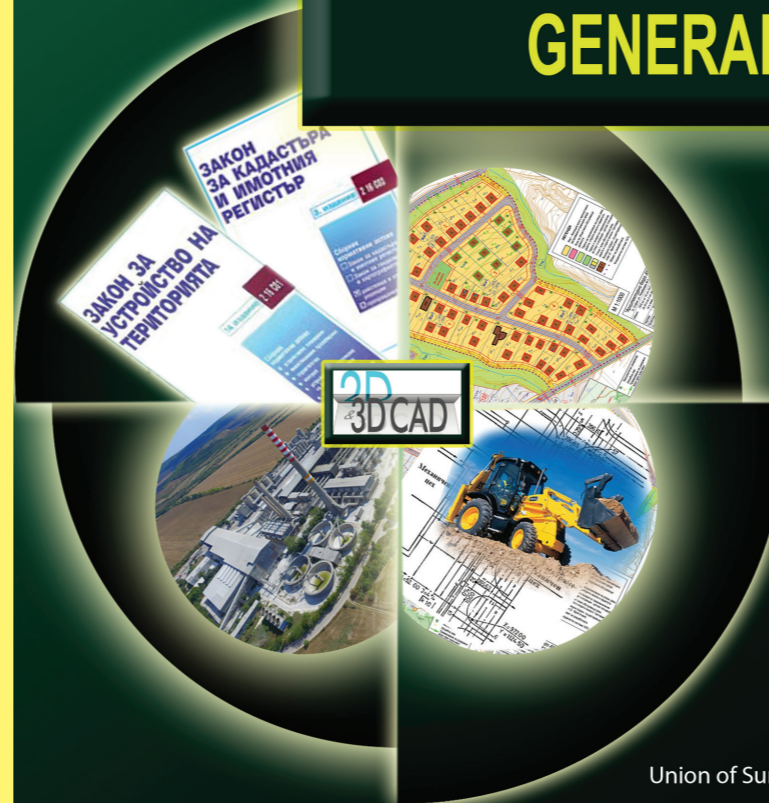
ISBN 978-619-90732-1-6

REVISED BOOK 2022

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APPLIED GEODESY
Part 1
ENGINEERING GEODESY

Book 2
**DESIGN AND IMPLEMENTATION
OF PHYSICAL AND
GENERAL PLANS**



Union of Surveyors and Land Managers in Bulgaria
Sofia, 2016

Editions of the book

The book “Design and implementation of structural and master plans” is part of the project “Applied Geodesy” of authors, consisting of three parts

1. Engineering Surveying
2. Application of Geodesy in Earth sciences
3. Non-engineering and natural science aspects of application of geodesy.

The three parts together treat the comprehensive application of Surveying. The book is actually Book 2 of part 1 “Engineering Surveying” which is ready for printing in form of three books:

1. Basics, systems and technologies of Engineering Surveying;
2. Design and implementation of structural and master plans;
3. Construction of linear objects buildings, structures, installation of technological equipment. Plans of built complex objects.

Book 2 is in a volume of 330 pages – text, formulas, tables and black – white and colorful figures in a format A4.

It is printed in Publishing house “Avangard” and can be bought in bookstores of the University of Architecture, Civil Engineering and Geodesy, SEC and Shining a torch. In digital form it is uploaded to the server:

<http://biblio.bg>

of the e-bookstore Biblio.bg in pdf format. The book is available up to page 22. The book is edition of the Union of Surveyors and Land Managers in Bulgaria. The other two books of part 1. Engineering Surveying will be printed and digitally accessible on the same server.