

Abstract: The diploma thesis Geometric Principles of Photogrammetry deals with constructive photogrammetry and geometrical reconstruction of horizontal and oblique image. The paper also contains a chapter on photogrammetry as a subject of science and a chapter on three-point perspective. Graphical methods for reconstruction of individual images are used. At the end, the thesis deals with the geometric reconstruction of two images and the reconstruction of the image using the computational software. The thesis is intended for students of technical and some of the natural science universities, students of grammar schools and technical high schools and to all who are interested in photogrammetry. The main part of the diploma thesis is elaborated in the form of solved examples and provides instructions for an extension of the descriptive geometry education at high schools and universities. The text of the work is complemented by a number of pictures and spatial visualizations that were created in a modern 3D modeling software and form a substantial contribution of the thesis.