

My diploma thesis deals with parallel and central projections of surfaces and algorithmization of their creation. It gives information about differential geometry of surfaces. Basic terms are explained as well as methods how to derive parametrization of several types of surfaces. It is also devoted to projections – parallel and central projection. The thesis deals with calculation of projection of surface. The thesis deals with calculation of projection of surface and in special cases with calculation of its silhouette. There is the program documentation of implemented algorithms. The theory of anaglyphs and their creation by programs is included. 3D red cyan glasses are enclosed to the thesis as well as a CD containing the .pdf version of this thesis and file named „mfiles“, which contains proposed functions. The thesis is meant to be used by teachers and students in teaching and studying descriptive geometry and mathematics.