

Abstract

Title: Geometry of shadows
Author: Yulianna Tolkunova
Department: Department of Mathematics Education
Supervisor: RNDr. Petra Surynková, Ph.D.

Abstract: The present thesis deals with geometric lighting and methods of its construction. In particular, it is directed at parallel lighting. The work includes a theoretical part, in which you can learn about the properties and basic concepts related to geometric lighting. Afterwards, there is a practical part, which contains a set of examples with their solutions and then unsolved examples for independent practice. The project is filled up with a number of pictures to enhance the reader's imagination about the principles and methods of lighting. In my work I emphasized intelligibility and usability of the methods listed there. In general, thesis Geometry of shadows is devoted to everybody who wants to learn more about the geometry of shadows. The work could be a useful study material for students and teachers of descriptive geometry.