

**Title:** Solved Problems in Optics

**Author:** Michaela Jungová

**Department:** Department of Physics Education

**Supervisor:** RNDr. Marie Snětinová, Ph.D., Department of Physics Education

**Abstract:** Twenty problems in optics were created for electronic collection of solved problems in physics in my thesis. These problems contain detailed structured solutions with solved hints and pictures as well. You can find the problems in the chapter "Geometrical optics" on the website: <http://reseneulohy.cz> and on the enclosed CD. One of the chapters in my thesis deals with description of the problems. The thesis also engages in thesis engages in the way how to classify the problems using different standards. A proposal of a problem classification, that has been used in during study of both elementary and high school physics textbooks and collections, is presented in the thesis. The goals of this classification were two: to get the picture of school curriculum connected to optical problems and to propose suitable structure of the chapter Optics in the electronic collection, which is in the aboved mentioned electronic collection.

**Keywords:** solved problems, classification of physics problems, electronic collection, optics