

Case studies of engineering geology problems associated with family houses and small buildings

Abstract

The diploma thesis deals with engineering geology issues associated with family houses and small simple constructions in general, using a case study approach. In the theoretical part, the author's own simple classification of engineering geology-related hazards threatening the construction is presented and the mechanisms concerned are explained. In the practical part, case studies collected from Czech Republic, France and the U. S. are used to demonstrate how these problems are investigated and dealt with in practice. The cases, sorted according to the theoretical classification, originate from already published materials as well as from the author's own investigation. In the third part, an unpublished case of an excavation-caused slope movement from Seyssins, France is presented, analyzed and commented as an illustration of different issues related to this kind of engineering geology surveys.