

Abstract: The main intention of this diploma thesis is to supplement existing study texts for the subjects *Introduction to Mathematical Methods of Physics* and *Mathematical Methods in Physics* with the missing parts. The diploma thesis deals with the partial derivative, the improper integral, the coordinate form of the curl operator, the formalism using the Kronecker and Levi-Civit symbol, and tensors. The work also includes a search for sources on the topic of textbook evaluation. Based on it, a questionnaire survey was conducted among students of physics teaching. The description of the preparation of this survey and its evaluation is also part of the thesis.