

This work is an introduction for students of the Charles University (mainly of the teaching fields) with selected programs for solving mathematical problems on computer (computer algebra systems) - Mathematica, Mathcad, Maple and Maxima. The thesis consists of three parts - first part is an introduction of mathematical programs, the second contains selected solved problems in subjects taught at MFF UK (Mathematics and Physics) and the last one is a Web interface that provides access to texts of this thesis and two previous parts on the Internet.