

Abstract

Title: Book of problems of kinematics of mass point

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Abstract: This thesis is a follow-up to the bachelor thesis titled Book of problems of kinematics of mass point for students of Physics Education. This work is a part of wider project which aim is to create an electronic collection of problems completed with detailed solutions and structured hints. Within the frame of this work was made part of collection with forty problems, which theme is kinematics of mass point. Most of problems were chosen from already existing collections and textbooks. Each problem contains task, system of hints and resulting solutions of hints, detailed solution and answer. At the beginning of the work are given aims of the work and its structure. In the next part of work is mentioned a survey of curriculum which is instructed in lower and upper secondary school and university in brief, which relates to this theme. The next part is a survey and brief characterization of collections of problems with this theme. The fourth part of the work is devoted to the electronic collection of problems, its history, the technical elaboration of problems, there is described the general characterization of the self collection of problems and its structure, too. Produces of the work are summarized at the end of this work. The component of this work is a supplement with extract of six created problems. All problems are then in electronic form on added CD.

Keywords: kinematics, electronic collection of solved problems, structured hint