

COMPUTER AID SYSTEM FOR DESIGN OF DUMP BODY FOR TRUCKS

Summary: The paper presents an developed computer aid system for design, strength analysis and variant optimization of dump body for trucks. The system is written in PHP using MySQL database and Apache server web sites and it is available to the user as a web page. The purpose of the system is the choice of the type, number and dimensions of structural elements, as well as creating technological documentation of the product.

The system allows the user to edit the results in order to design for specific requirements. The model is verified using FEM software. It is also possible to optimize the structure due to the selected criteria.

Keywords: dump body, aided design, strength analysis, variant optimization, parametric model