DESIGN OF ELECTROMECHANICAL ENERGY TRANSDUCERS BASED ON RAPID PROTOTYPING TECHNIQUES

Sebastian SZKOLNY

ABSTRACT The process of designing of an electromechanical transducer consists of three phases: the theoretical analysis, research (modelling and simulation), and the implementation and testing in the laboratory. Computer technologies allow the quick transition between subsequent phases of research, but also their parallel running. This paper presents the possibility of using LabView and JMAG for this purpose. The techniques: Hardware in the Loop (HIL) and Rapid Control Prototyping (RCP) in the field of computer-aided design of electromechanical transducers have been described.

Keywords: electromechanical transducers, design, LabVIEW