

ELECTRICAL DRIVE SYSTEMS CONTROL ON A HYBRID VEHICLE MODEL

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Abstract. The paper presents the electrical drive systems control based on a experimental model of a hybrid electric vehicle. A communication CAN network of high speed (1 Mbps) assures a distributed control of all the components of the electrical drives systems. The modeling and the control of different operating regimes are realized on an experimental stand of a hybrid electric vehicle. The experimental results concerning the variations of the main variables: currents, torques, speeds, are presented.

Key words: electrical drives; distributed control; hybrid electric vehicle; CAN network.