

C. Spentzas, G. Michael,

NTUA – National Technical University Athens, Deliyanni 52 14562 Kifissia, Greece

M. Demić, Faculty of Mech. Eng., 34000 Kragujevac, Sestre Janjic 6, demic@kg.ac.yu

A MINIMALIST APPROACH TO THE DESIGN OF ELECTRIC VEHICLES

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Abstract

The venue of electric vehicle technologies opens new possibilities in the design of vehicles. In this paper we present a minimalist approach to the design of electric vehicles. By combination of several subsystems each one assuming a single role, in fewer sub-systems assuming more than one role, we succeed to design an electric/solar vehicle much lighter than existing equivalent vehicles. Consequently energy consumption is accordingly reduced, range of operation between successive charges is increased, and manufacturing cost is lowered, since raw materials of lower weight are needed to build it.

Key words: electric vehicle, solar vehicle.