

CONTROL SYSTEM OF RESONANT INVERTERS IN INDUCTIVE HEATING APPLICATIONS

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The resonant inverters are used in heating installations by induction because they provide the possibility to compensate the inductor's limited inductive impedance. A general schematic of the resonant inverter with MOSFET and the advantages of this system are proposed. There is also presented a block diagram for the feed-back loop, which is a part of the inverter's control system. It has the role to keep unchanged the working parameters under specific conditions. For the control circuit there are provided the structure and the minimal set of designing elements. It is also specified the advantage of fast adaptation to the impedance variation.