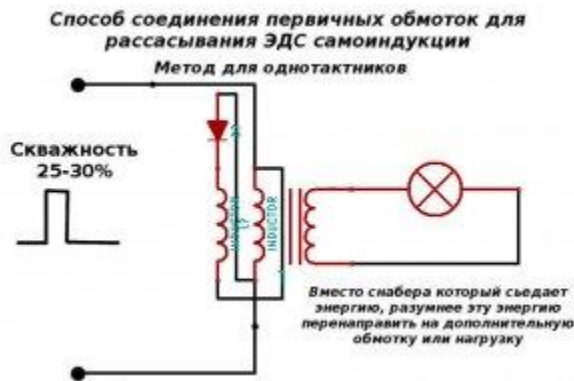


Asymmetrical Transformers Pg8



ways to “get rid” of the EMF of self-induction is to find a good use for it.

It just needs to be sent to the load. If you look at any scheme of a single-stroke flyback player, there they use a snuffer that turns “extra” energy into heat. It is more reasonable to send it to ext. winding, here you have the increase

[View attachment 14596](#)

Last Edit: January 27, 2019

Lev-sky, January 27, 2019

141

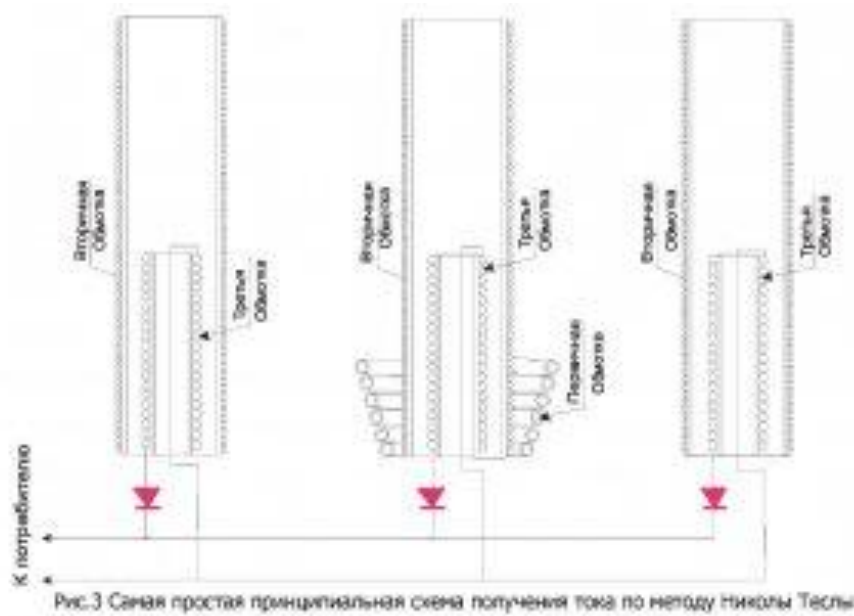
One of the ways to make an asymmetric trans is to do so that the direction of the magnetic fluxes of the primary and secondary bodies coincide, i.e. so as not to meet, but in one direction. At the core, it will be difficult to do, so you will have to use a heartless trance.

To do this, you first need to understand that the external field induced by the winding then turns around and goes back through the center of the coil. Thus, so that the fields of the windings coincide, the secondary must be located inside the coil, while the internal secondary winding must be smaller in diameter than the primary. Thus, the direction of their fields must match in direction. But when winding the windings, so that the direction coincides, it is necessary to take into account that the inside of the coil goes in the opposite direction, so this must be taken into account in determining the direction of winding the wire in the coils. And each coil is wound in only one layer of wire, because then the direction of the field follows the direction of the wire, and in multilayer coils the rule of a gimlet or right hand is already triggered there.

This has already been implemented on Tesla coils - a removable coil of a smaller diameter is placed in the center of the high-voltage coil. If you look at the work of Katargin, then there it is done

But Katargin has several coils nearby and a freebie is removed from each; the more such coils are nearby, the more energy can be removed, like an antenna, they collect energy from the surrounding field induced by the central coil. Ie this is the real asymmetric transformer.

If you have thoughts on how to implement this principle on the core, then the flag is in your hands



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142