

# **THE THEORY OF RESONANCE CIRCUIT WITH INCREASING DISSIPATION**

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Classical theory of resonance for oscillating circuit is correcting for circuits with high quality factor. In case on generalization for time varying and nonlinear circuits this theory is too particular, in this connection it is difficult to find direction of generalization. In this article it is offered more general variant of resonant theory of usual circuit and is presented method of generalization of resonant theory for time varying circuit.

A resonance of time varying circuit is important and complex phenomenon. Superheterodyne reception does non possible without resonance of usual circuit. Superregenerative reception does not possible without resonance of time varying circuit. The usual circuit is degenerating variant of time varying circuit. In this article it is given critical discussion existing theory of resonance of time varying circuit. It is proposed new approach to construction this theory. Undeservedly forgetting the principle of linear inclusion permits to link time varying circuit with nonlinear circuits.