



**THE NEW METHOD OF INVESTIGATION OF THE PROBLEM
OF SYNCHRONIZATION ELECTRICAL MACHINE
WITH POWER NETWORK**

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Abstract

Connecting a generator to the network, either in a normal regime or under a significant load change, is possible with greater (than commonly accepted now) initial differences between the rotor speed and the frequency of the stator current, or, possible with small frequency differences and any misalignment angle between the magnetic axis of spinning rotor and the rotary electro-magnetic field of the stator.

Keywords and phrases: synchronous electric machines, powerful network, transient processes, Routh's structure of asymptotically simplified equations.

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