

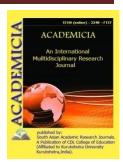
ISSN: 2249-7137 Vol. 11, Issue 3, March 2021 Impact Factor: SJIF 2021 = 7.492



ACADEMICIA

An International Multidisciplinary Research Journal

(Double Blind Refereed & Peer Reviewed Journal)



DOI: 10.5958/2249-7137.2021.00958.7

THE PRINCIPLE OF OPERATION OF TRANSFORMERS

Kamolov Nosirjon Kamolovich*; Norkhojayeva Nargiza Nasirovna**

*Candidate of technical sciences, Fergana Polytechnic Institute, UZBEKISTAN

**Senior Lecturer, Fergana Polytechnic Institute, Fergana, UZBEKISTAN

ABSTRACT

In this article highlights of the principle of operation of transformers and the most common electrical devices in industry. The choice of a power transformer for operation in enterprises is based on the selection of power, as well as in accordance with the requirements for power reliability. To ensure uninterrupted power supply, in some cases, it is necessary to install several transformers. An alternating current is applied to the primary winding, which forms an alternating magnetic flux in the magnetic circuit. This is due to its closure on the magnetic circuit and the formation of coupling between the windings, inducing EMF.

KEYWORDS: Power Transformers, Magnetic Induction, Efficiency, Operating Principle, Classification, Parameter.

REFERENCES:

- **1.** Nosirovna N. N. et al. Energy saving technologies and problems of their implementation //Проблемысовременнойнаукииобразования. 2019. №. 12-2 (145).
- 2. Muminjon N., Dilshodjonugli N. S. Improvement of transformer protection elements //ACADEMICIA: An International Multidisciplinary Research Journal. − 2020. − T. 10. − №. 6. − C. 394-398.
- 3. Obidov J. G. O. About safety technique and issues of supplying electricity of the textile industry //ACADEMICIA: An International Multidisciplinary Research Journal. 2020. T. 10. № 9. C. 123-127.



ISSN: 2249-7137 Vol. 11, Issue 3, March 2021 Impact Factor: SJIF 2021 = 7.492

4. https://manbw.ru/analitycs/why_as_fuel_for_power_stations_is_advantageous_and_promisin g_gas.html

- **5.** Khurshidjon Y. et al. The study of photoelectric and photographic characteristics of semiconductor photographic system ionisation type //ACADEMICIA: An International Multidisciplinary Research Journal. − 2020. − T. 10. − № 5. − C. 72-82.
- **6.** http://electricalschool.info/main/osnovy/2255-princip-raboty-transformatora.html