

ELECTRIC POWER ENGINEERING TERMS BASED ON THEMATIC CHARACTERISTICS

Classification of notions and terms is a prerequisite for a scientific system development. In characterizing the term, researchers primarily emphasize the comparison of words with notions of a certain area of knowledge as terms do not serve only for nominating certain scientific notions.

Ukrainian electrical power engineering terminology is a separate terminological system enclosing general technical and special technical notion names, which must be classified to be brought together in groups on the logical approach basis.

The evidence analysis substantiates the distinguishing of major lexical and thematic groups in the category of highly specialized term units of the electric power engineering terminology, with their description provided below.

1. The names of conditions, phenomena, processes, and actions: *розмикання елемента електричної мережі (лінії, трансформатора)* – interruption of an electric network element (line, transformer), *вимикання / переривання електропостачання* – breaking / interrupting power supply, *відновлення напруги* – voltage recovery, *зникнення напруги* – power failure, etc. The nominations of this type are developed from Ukrainian and international term elements. In this thematic group term compounds prevail, with one word terms represented primarily by Ukrainian equivalents (*регулювання* – regulation, *передавання* – transmission, *споживання* – consumption). The function of naming conditions, phenomena, processes and actions for derivatives is performed by means of Ukrainian and other languages suffixes: *-анн(я), -нн(я), -енн(я), -інн(я), -ацій, -ість*.

2. The names of devices, mechanisms, apparatuses, appliances, equipment and their components: *двигун змінного струму* – alternating current motor, *пристрій керування* – control device, *вихідні затискачі схеми* – output scheme clips, *ізолювальна опора (підвіска, штанга, підіймач)* – insulating support (pendant, bar, and lift). We will argue that for creating electric power engineering terms to denote devices, mechanisms and objects being used to perform certain processes and actions, there are widely used suffixes **-ач**: *вимикач* – switch, *роз'єднувач* – disconnecter, *електроприймач* – collector, *заземлювач* – earthing, *приймач* – receiver, *запалювач* – igniter, *затискач* – clip; **-атор**: *трансформатор* – transformer, *ізолятор* – insulator, *компенсатор* – compensator.

Term meanings in this thematic group are quite often specified by nouns in oblique cases, e.g., *гірлянда ізоляторів* – garland of insulators, or adjectives: *горішковий ізолятор* – egg isolator, etc.

3. The terms indicating magnitudes. They are represented by two-, three-, and four multicomponent terminological combinations, e.g., *електрична ємність між двома провідниками* – electrical capacitance between two conductors, *електрична напруга* – electrical voltage, *енергетичний коефіцієнт корисної дії* – energy efficiency, *енергоємність продукції* – energy-output ratio, *замикання на землю* – ground fault, etc.

4. The names of the electric power engineering branch: *баланс потужності енергосистеми* – power grid balance, *баланс електроенергії в енергосистемі* – balance of power in the grid, *показник використання встановленої потужності електростанції* – rate of installed capacity of the electric power station, *показник надійності електропостачання* – power supply reliability rate, etc.

5. The names of characteristics – these are mainly multicomponent terminological compounds: *стійкість енергосистеми* – power system stability, *режим роботи енергосистеми* – power system mode, etc. These terms are concretized by means of adjectives or nouns in the genitive case.

6. The names of intervals are split up into the terms denoting process duration: *тривалість* – duration (*увімкнення / вмикання* – turning on / turning off, *струмів* – currents, *аварійної перерви* – emergency break, *усування пошкоджень* – troubleshooting, and the terms which indicate *час* – time (...*увімкнення* – switch, ...*найбільших втрат* – greatest losses, ...*автоматичного відновлення живлення* – automatic power restoration, etc.).

7. The terms to denote production organization: *електропостачальна система* – electric power supply system, *електростанція* – electric power station, *закриті розподільчі пристрої* – closed switchgears, *головний щит керування* – main control panel, *кімната зв'язку* – communication room, etc.

Therefore the electric power engineering term system is fairly distinct and logical at the notion level. However the system linguistic presentation is multi-patterned, represented by various structure types of words and word combinations. Each group of terms is related to common semantic signs, which correlate with these words as thematic integrity components.

Literature:

1. Malinovs'kyj, A. A. Fundamentals of electric power engineering: Textbook / A.A. Malinovs'kyj, B.K. Khokhulin. – The 2nd edition, revised and supplemented. – Lviv: The Lviv Polytechnic National University Publishing House, 2009. – 436 с.

2. Olijnyk, M. Y. Fundamentals of applying electric energy: Manual: In 2 parts / M.Y. Olijnyk, V.H. Turkovskyj. – Lviv: The Lviv Polytechnic National University Publishing House, 2008. – Ч.1. – 168 с.

3. Seheda, M.S. Electrical networks and systems: Textbook / M.S. Seheda. – Lviv: The Lviv Polytechnic National University Publishing House, 2009. – 488 с.

4. The Russian-Ukrainian scientific and technical dictionary (30 000 words) / [Perhach, V., Kinash, B..– Lviv, 1997 – 456 с.

5. The Ukrainian-Russian-English-French explanatory dictionary of main terms of energetics and electrotechnics / Y.S. Yemelyanova, O.M. Moroz, L.O. Symonenko, O.S. Dyoloh; Edited by Y.S. Yemelyanova. – Kh.: Virovets', A.P. "Apostrophe", 2012. – 264 c.