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BASIC ERRORS OF OPTICAL MOISTURE METERS

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ABSTRACT

To ensure the linearity of the scale in the design of moisture meters, such measurement conditions are chosen under which the dependence of the transmission coefficient on informative and non-informative parameters is linear or close to it. Errors of optical moisture meters are determined at two stages: choosing the optimal measuring scheme and during calibration and verification of moisture meters. The existing variety of measuring circuits brings to the first place the problem of choosing the optimal measuring circuits, their structural and parametric optimization in terms of metrological indicators (random and systematic errors). The vast majority of moisture meters are based on a ratio metric scheme.

KEYWORDS: *Diagrams, Metrological indicators, Parameter, Moisture meter, Scales, Operation, Coefficient.*

REFERENCES

1. Musaev E.S., Mukhitdinov M.M., Nazarov U.U. The use of controlled optoelectronic generators for measuring the parameters of objects // In the book: Standardization and measuring technology. Krasnoyarsk, 2001 Issue. 4. S. 103-108.
2. Musaev E.S., Mukhitdinov M.M., Nazarov U.U., Rozhkov V.M. Features of work of photoresistors in optoelectronic converters // In the book: Application of optoelectronic means in control and measuring systems. Fergana, 1978.S. 93
3. Musaev E.S., Mukhitdinov M.M., Bernshtein A.G., Nazarov U.U. Photo-receiving devices for multi-wavelength measuring systems // In the book: Application of optoelectronic means in control and measuring systems, Fergana, 1978. P. 102

4. Musaev E.S., Mukhitdinov M.M., Rozhkov V.M. Optoelectronic measuring transducer with obtaining information in the path of emitters // In the book: Application of optoelectronic means in control and measuring systems. Fer-gana, 1978.S. 109
5. Musaev E.S., Mukhitdinov M.M., Nazarov U.U. On the issue of using integral circuits for processing a photoelectric signal // In the book: The use of integrated circuits in household electronic equipment. M., 1978.S. 8-9.
6. Musaev E.S., Mukhitdinov M.M., Nazarov U.U. Research of an optoelectronic two-wave meter of object parameters based on semiconductor emitters and receivers // Abstracts of the Republican Conference of Young Scientists. Tashkent, 1978 Part 1.P. 107
7. Musaev E.S., Mukhitdinov M.M. Optoelectronic converters on double LEDs // Abstracts of the IX All-Union Conference on Microelectronics. Kazan, 1980.S. 150
8. Musaev E.S., Mukhitdinov M.M. Analysis of the main sources of errors in optoelectronic measuring converters with functional scanning and methods for their elimination // Radiotekhnika. 1981, T. 17, No. 3 S. 88-92.
9. Musaev E.S. Optoelectronic methods and devices for controlling humidity with exponential sweep // In the book: Optical and radio wave methods for controlling the quality of materials and products. Fergana, 1981.S. 84-89.
10. 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.
11. Mamasodikov Y., Qipchaqova G. M. Optical and radiation techniques operational control of the cocoon and their evaluation //ACADEMICIA: An International Multidisciplinary Research Journal. – 2020. – T. 10. – №. 5. – C. 1581-1590.
12. Nosirovna N. N. et al. Energy saving technologies and problems of their implementation //Проблемысовременнойнаукиииобразования. – 2019. – №. 12-2 (145).
13. Muminjon N., Dilshodjonugli N. S. Improvement of transformer protection elements //ACADEMICIA: An International Multidisciplinary Research Journal. – 2020. – T. 10. – №. 6. – C. 394-398.
14. 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.