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**HVPD Longshot™**

# Hypd Longshot Pd Diagnostic System

**Vasily Ya. Ushakov, Alexey V.  
Mytnikov, Ikromjon U. Rakhmonov**

## **Hvpd Longshot Pd Diagnostic System:**

**High-Voltage Equipment of Power Systems** Vasily Ya. Ushakov, Alexey V. Mytnikov, Ikromjon U.

Rakhmonov, 2023-08-21 This textbook covers in detail the problem of improving the reliability and service life of high voltage equipment in electric power systems mainly through testing monitoring and diagnostics which support the timely repair or replacement of equipment The main focus is on high voltage power and instrument transformers switching devices powerful rotating electric machines capacitors bushings and power cables The design purpose and principle of operation for each respective type of equipment as well as adverse factors that can lead to defects primarily in insulation and as a result to accelerated aging wear and failure are considered In turn the scientific and technological foundations and practical application of testing monitoring and diagnostics to determine the technical condition of equipment are described Considerable attention is paid to new and promising methods for testing under voltage without interrupting operation such as pulsed flaw detection and dielectric spectroscopy In addition the authors propose a number of helpful physical concepts and technical solutions The book stands out in terms of the breadth and depth of the consideration of the problem which reflects recent trends and concepts for the development of the electric power industry and its convincing demonstration of the capabilities of traditional and advanced methods in relation to the main equipment used in electric power systems The textbook is intended for undergraduate and graduate students in the field of high voltage technologies for electric power systems It also benefits engineering personnel working with electric power systems and in the electrical industry

*Online Partial Discharge Detection and Signal Analysis for High Voltage Cables* David Ming Hui Foo, 2005 Partial Discharges are symptoms of insulation degradation that continually promotes the deterioration of the insulation condition eventually leading to permanent failures The PD event itself is not dangerous but it is the state of the discharge activity that can lead to unforeseen failures Hence continuous monitoring of PD enables the prevention of these unforeseen failures that result in economic losses High voltage equipment that has been installed more than forty years ago is highly susceptible to PD since it is reaching the insulation end life For the case of underground cables continuous PD monitoring will help avoid unplanned outages and the need for the immediate replacement of faulty cable sections that will incur large costs Traditionally PD diagnostics have been carried out through offline methods whereby the cable specimen is removed from service during the diagnostic tests On the other hand online PD diagnostics are preferable since the services are not disrupted However there are some major challenges that come with the online approach For instance heavy noise interference the detection and location of PD through the interpretation of measured signals Presented in this Thesis are presented novel contributions to the area of online PD detection for underground HV cables The work encompasses aspects of physical data acquisition procedures and the post processing signal processing algorithms A new online PD data acquisition unit equipped with pre processing and signal conditioning is presented The system has other features that take into account the difficulties of

logistics as well as issues related to the regulations and protocols of the utility. The primary aim of this developed system is to produce a PD database that will be used for research purposes. Since applied wavelets for the field of PD diagnostics have been popular amongst researchers it was investigated further in this Thesis. Following from the data acquisition system large data sizes required intensive processing. A new wavelet based algorithm combined with the use of Higher Order Statistics is presented. This algorithm enables the simplification of data signals to highlight potential PD activity resulting in the reduction of manual examination of wavelet algorithms. The conventional wavelet algorithms applied in the literature generally referred to a specific approach of the wavelet implementation i.e. the decimated approach. However it was found that the non decimated approach has several advantages with regards to PD signature detection and PD location. The application of both approaches and their comparisons is applied to simulated data as well as online field data. Finally the analysis of online PD data acquired from the new data acquisition system is presented. Several PD characterisation processes are applied and positive results were generated. Aspects relating to the physical environments of test site are also included. The challenges and experiences gathered in this research project are described.

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