

Analysis of insulation degradation behavior based on partial discharge measurement

Choudhary, Maninder 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 / p. 71-72 : ill https://www.ester.ee/record=b5570906*est

A Comprehensive Study of Partial Discharge Based Extrinsic Aging in Nomex Insulation Films : Modeling, Simulation and Measurement

Choudhary, Maninder; Shafiq, Muhammad; Bhattarai, Abhinav; **Kiitam, Ivar**; **Taklaja, Paul**; **Palu, Ivo** Electric Power Systems Research 2025 / art. 111663 <https://doi.org/10.1016/j.eprsr.2025.111663>

Denoising and extraction of partial discharge pulse characteristics using wavelet denoising and local maxima method

Choudhary, Maninder; **Palu, Ivo**; **Kiitam, Ivar**; Shafiq, Muhammad; **Taklaja, Paul**; Bhattarai, Abhinav 2024 IEEE International Conference on Power and Energy (PECon) 2024 / p. 221-225 <https://doi.org/10.1109/PECon62060.2024.10827085>

Design and applications of Rogowski coil sensors for power system measurements : a review

Shafiq, Muhammad; Stewart, Brian G.; Hussain, Ghulam Amjad; Hassan, Waqar; **Choudhary, Maninder**; **Palo, Ivo** Measurement : journal of the International Measurement Confederation 2022 / art. 112014, 10 p.: ill <https://doi.org/10.1016/j.measurement.2022.112014>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Electrical aging and lifetime study of nomex insulation influenced by partial discharges

Choudhary, Maninder; **Kiitam, Ivar**; **Palu, Ivo** Electric power systems research 2025 / art. 112000
<https://doi.org/10.1016/j.eprsr.2025.112000>

Insulation aging and framework for the development of aging model based on partial discharge analysis

Choudhary, Maninder 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 / p. 79-80 : ill https://www.ester.ee/record=b5504019*est

Investigating the progression of insulation degradation in power cable based on partial discharge measurements

Hassan, Waqar; **Shafiq, Muhammad**; Hussain, Ghulam Amjad; **Choudhary, Maninder**; **Palu, Ivo** Electric power systems research 2023 / art. 109452 <https://doi.org/10.1016/j.eprsr.2023.109452> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#)
[Article at WOS](#)

Investigation of partial discharge characteristics in XLPE cable insulation under increasing electrical stress

Choudhary, Maninder; Shafiq, Muhammad; **Kiitam, Ivar**; **Palu, Ivo**; Hassan, Waqar; **Singh, Praveen Prakash** Engineering failure analysis 2024 / art. 108006 <https://doi.org/10.1016/j.engfailanal.2024.108006> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A Multi-Method Approach to Solid Insulation Aging Based on Partial Discharge Measurement = Osalahenduste mõõtmisel põhinev mitmemeetodiline lähenemine tahke isolatsiooni vananemisele

Choudhary, Maninder 2025 https://www.ester.ee/record=b5770973*est <https://doi.org/10.23658/taltech.86/2025>
<https://digikogu.taltech.ee/et/Item/cb37c9d8-aad4-4e09-8759-1125ea1247e0>

Partial discharge pulse shape analysis for progression of insulation degradation in medium voltage cable

Choudhary, Maninder; Shafiq, Muhammad; **Kiitam, Ivar**; **Palu, Ivo**; Hassan, Waqar 2023 International Electrical Engineering Congress (IEECON) 2023 / p. 332-336 <https://doi.org/10.1109/IEECON56657.2023.10126589>

Precision and accuracy of pulse propagation velocity measurement in power cables

Kiitam, Ivar; Shafiq, Muhammad; **Choudhary, Maninder**; Parker, Martin; **Palu, Ivo**; **Taklaja, Paul** Energies 2023 / art. 2702
<https://doi.org/10.3390/en16062702> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A review of aging models for electrical insulation in power cables

Choudhary, Maninder; Shafiq, Muhammad; **Kiitam, Ivar**; Hussain, Amjad; **Palu, Ivo**; **Taklaja, Paul** Energies 2022 / Art. nr. 3408
<https://doi.org/10.3390/en15093408> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Study of partial discharge characteristics in medium voltage cable insulation with internal defect

Choudhary, Maninder; **Palu, Ivo**; **Kiitam, Ivar**; Shafiq, Muhammad; **Taklaja, Paul** 2024 IEEE International Conference on High Voltage Engineering and Applications (ICHVE) 2024 / 4 p <https://doi.org/10.1109/ICHVE61955.2024.10676188>

Study on the progression of surface partial discharge in power cables

Choudhary, Maninder; Shafiq, Muhammad; **Kiitam, Ivar**; **Palu, Ivo**; **Taklaja, Paul** 2022 IEEE 63th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON): conference proceedings 2022 / 6 p
<https://doi.org/10.1109/RTUCON56726.2022.9978804>