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Ir. Surya Hardi, M.S., Ph.D., was born in Medan on June 07, 1959, and is a lecturer at Universitas Sumatera Utara in the field of Electrical Engineering. He completed his last education at the doctoral level at the Faculty of Electrical Systems Engineering (Electro Engineering) Electrical Systems Engineering Study Program Universiti Malaysia Perlis (UniMAP) in 2006-2015. His awards include Certificate Presenter and Certificate Presenter.

Publications

2023

Prosiding seminar internasional

Modeling of Electric Potential Assessment for Substation Grounding Grid Under Lightning Strikes Using LabVIEW

SUHERMAN , SURYA HARDI

2022

Jurnal internasional bereputasi

The Technique of Voltage Level Time Division Based on Maximum Pulse Width to Reduce Total Harmonic Distortion on Multilevel Transformerless Photovoltaic Inverter (MLTPVI) System

MUHAMMAD IRWANTO , SURYA HARDI , SUWARNO

2024

Prosiding seminar internasional

Parameters as indicators of grounding rod corrosion in substation in port area

SURYA HARDI

2022

Prosiding seminar internasional

Mitigation of soil resistivity using composition of zeolite, NaCl, and charcoal

SURYA HARDI

2024

Jurnal internasional bereputasi

Effects of Load Variation and Fault Resistance on the Operation Time of IDMT Over Current Relay

INDRA NISJA , SURYA HARDI

2015

Prosiding seminar internasional

Accurate Phase to Phase Fault Resistance Calculation Using Two Terminal Data

SURYA HARDI

2024

Jurnal internasional bereputasi

Effects of Load Variation and Fault Resistance on the Operation Time of IDMT Overcurrent Relay

SURYA HARDI , INDRA NISJA , Muhd Hafizi Idris , Yazhar Yatim , Quah Swee Jhing

2021

Prosiding seminar internasional

Improved Quality of using Voltage Static Var Compensator and Capacitor Bank on the Transmission Line

SURYA HARDI

2024

Artikel ilmiah

Analysis of Soil Types and Grid Configurations on Substation Grounding for Safety Design

SURYA HARDI

2023

Artikel ilmiah

Transient characteristic of transmission line and tower footing grounding due to lightning strike

SURYA HARDI , ROHANA , DECY NATALIANA

2024

Artikel ilmiah

Induction Motor Performance Under Voltage Sag Types I, II and III: Experimental Study

SURYA HARDI , AHMAD ARIF , DESMAN JONTO SINAGA , MUHAMMAD DANI SOLIHIN

2013

Prosiding seminar internasional

Core Loss Characteristics Analysis of Power Transformer Under Different Frequencies Excitation

SURYA HARDI

2022

Prosiding seminar internasional

Mitigation of voltage sags in distribution line system using static VAR compensator and static synchronous compensator

SURYA HARDI , INDRA NISJA , ROHANA

2024

Jurnal internasional bereputasi

Multi-Stage ANN Model for Optimizing the Configuration of External Lightning Protection and Grounding Systems

SURYA HARDI , ROHANA , NASARUDDIN , YUWALDI AWAY

2021

Prosiding seminar internasional

Modeling Of Generator Neutral Grounding Through Distribution Transformer Using Lab View Graphical User Interface

SURYA HARDI

2025

Prosiding seminar internasional

Induction Motor Performance Under Voltage Sag Type I, Type II, and Type III: Experimental Study

SURYA HARDI , AHMAD ARIF , DESMAN JONTO SINAGA , MUHAMMAD DANI SOLIHIN , Muzamir Isa

2021

Prosiding seminar internasional

Economic Design of Substation Grounding Grid using ETAP Software: A Case Study of 2 x 500 MVA Galang Substation

SURYA HARDI

2023

Prosiding seminar internasional

Application Modeling of Substation Grounding Grid Design Using Matlab

SUHERMAN , SURYA HARDI

2024

Prosiding seminar internasional

Optimizing Microgrid Efficiency with Battery and Super Capacitor Hybrid Systems

SURYA HARDI , SUHERMAN , SELAMAT RIADI

2022

Jurnal internasional bereputasi

The Technique of Voltage Level Time Division Based on Maximum Pulse Width to Reduce Total Harmonic Distortion on Multilevel Transformerless Photovoltaic Inverter (MLTPVI) System

SURYA HARDI

2023

Prosiding seminar internasional

Effect of harmonic distortion on distribution feeder losses serving housing load

SURYA HARDI

2022

Prosiding seminar internasional

Simulation of induction motor behavior under voltage sags using alternative transient program

SURYA HARDI

2023

Jurnal nasional terakreditasi

PENILAIAN KEANDALAN DAN EKONOMIS PENYULANG TEGANGAN MENENGAH DENGAN FAILURE MODE EFFECT ANALYSIS

MHD FAHMI SYAWALI RIZKI , SURYA HARDI

2019

Prosiding seminar internasional

Modeling of Substation Grounding Grid Design Using Lab View Graphical User Interface

SURYA HARDI

2023

Prosiding seminar internasional

Comparative study of static var compensator and capacitor bank for increasing transmission lines performance

SURYA HARDI , INDRA NISJA

2024

Prosiding seminar internasional

Comparative Analysis of The Effective Grounding System on External LPS Modeling in PV Fields

NASARUDDIN , ROHANA , YUWALDI AWAY , SURYA HARDI

2022

Artikel ilmiah

Design and Optimization of Unified Power Flow Controller (UPFC) on IEEE 9-Bus System

SUHERMAN , SURYA HARDI

2019

Jurnal internasional

Ride Through Testing of Variable Speed Drive Due To Voltage Sag Types (Types I, II and III)

SURYA HARDI

2023

Prosiding seminar internasional

Reactive power optimization analysis on static VAR compensator with fast decoupled method

SURYA HARDI

2025
Jurnal internasional bereputasi

Techno-economic optimization of hybrid renewable energy systems for household energy management

SURYA HARDI , FAISAL IRSAN PASARIBU , SUWARNO , AHMAD TAUFIK , ALBERT PANJAITAN

2021
Prosiding seminar internasional

Influence of Lightning Characteristics on Back Flashover in Extra High Voltage Transmission Line: A case study

SURYA HARDI

2023
Artikel ilmiah

Design and Optimization of Unified Power Flow Controller (UPFC) based on IEEE 9 Bus System

SURYA HARDI , SUHERMAN

2019
Prosiding seminar internasional

Study on AC Contactor Performance Under Voltage Sags

SURYA HARDI

2025
Prosiding seminar internasional

Analysis of Soil Types and Grid Configurations on Substation Grounding for Safety Design Due to Lightning Strike

SURYA HARDI , Muhd Hafizi Idris

2025
Prosiding seminar internasional

The Influence of Soil Two-Layer Structures on Substation Safety in Lightning Strike Conditions

SURYA HARDI

2020
Prosiding seminar internasional

Influence of Location and Capacity of Distributed Generations on Voltage Sags Mitigation Using Alternative Transient Program

SURYA HARDI

2023
Prosiding seminar internasional

External Lightning Protection System modeling on photovoltaic using ATP Draw

YUWALDI AWAY , ROHANA , SURYA HARDI , NASARUDDIN

2019
Prosiding seminar internasional

Prediction system of carbon monoxide toxic gas monitoring using double moving average method

SURYA HARDI , FAHMI , SUHERMAN

2023
Jurnal nasional terakreditasi

PEMODELAN PERLINDUNGAN SAMBARAN PETIR PADA TRANSFORMATOR DAYA DI GARDU INDUK TEGANGAN TINGGI

SURYA HARDI

2023
Jurnal internasional

Analysis of soil resistivity improvement with variations of bentonite and chemical for grounding of electrical equipment

SURYA HARDI , MILLI ALFHI SYARI

2022

Artikel ilmiah

Application Modeling of Substation Grounding Grid Design Using Matlab

SURYA HARDI , SUHERMAN

2024

Jurnal nasional terakreditasi

Electrical Energy Audit of Operation Support Equipment at 200 M W Steam Power Plant

ROHANA , ARNAWAN HASIBUAN , SURYA HARDI

2020

Prosiding seminar internasional

Influence of Static VAR Compensator Application for Improving Power Quality in Distribution Lines Supplied Industry

SURYA HARDI

2024

Jurnal internasional bereputasi

Multi-Stage ANN Model for Optimizing the Configuration of External Lightning Protection and Grounding Systems

YUWALDI AWAY , ROHANA , NASARUDDIN , ANDRI NOVANDRI , SURYA HARDI

Community Services

2024

PENGURUS BADAN KEMAKMURAN MASJID AL-IKHLAS KELURAHAN SUKA MAJU KECAMATAN MEDAN JOHOR KOTA MEDAN PERIODE 2024-2029

DR H SAPARUDDIN SIREGAR SE AK MAG , SURYA HARDI

2025

PENGURUS BADAN KEMAKMURAN MASJID AL-IKHLAS KELURAHAN SUKA MAJU KECAMATAN MEDAN JOHOR KOTA MEDAN PERIODE 2024-2029

DR H SAPARUDDIN SIREGAR SE AK MAG , SURYA HARDI

2024

Susunan Pengurus Badan Kemakmuran Masjid Al-Ikhlas

FATHIA RAHMADINI , SURYA HARDI
