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Autore	Rimlinger Frank <1957->
Titolo	Pregroups and Bass-Serre theory / / Frank Rimlinger
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , 1987 ©1987
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Collana	Progress in Molecular Biology and Translation Science, , 0065-9266 ; ; Volume 65, Number 361
Disciplina	512/.22
Soggetti	Pregroups Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"January 1987, volume 65, number 361 (fourth of 5 numbers)."
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Nota di contenuto	""Table of Contents""; ""Introduction""; ""Part I: Stallings's theorem about pregroups; introduction to pregroups of finite height""; ""1. The definition of a pregroup""; ""2. The pregroups of finite height""; ""3. The subpregroup of units""; ""Part II: A presentation for the universal group of a pregroup of finite height""; ""4. Pregroup actions and generating sets""; ""5. A presentation for the universal group of a pregroup of finite height""; ""Part III: The relationship between pregroups and graphs of groups""; ""6. A graph of groups structure for pregroups of finite height"" ""7. A pregroup structure for graphs of groups of finite diameter"""""" References""

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Autore	Dong Xuzhu
Titolo	The Proceedings of 2023 4th International Symposium on Insulation and Discharge Computation for Power Equipment (IDCOMPU2023) : Volume III / / edited by Xuzhu Dong, Li Cai
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	9789819974054 9819974054
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Collana	Lecture Notes in Electrical Engineering, , 1876-1119 ; ; 1102
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Disciplina	621.31
Soggetti	Electric power production Electronics Electrical Power Engineering Electronics and Microelectronics, Instrumentation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- Contents -- Simulation and Experimental Study of Temporary Grounding Potential Distribution in Power Engineering -- 1 Introduction -- 2 Simulation Calculation of Horizontal Dimension Dispersion Characteristics -- 3 Simulation Calculation of Vertical Dimension Dispersion Characteristics -- 4 Simulation Calculation of Dispersing Current Optimization of Temporary Grounding Device -- 5 Simulation Experiment -- 6 Conclusion -- References -- Study on Lightning Dispersion and Breakdown Protection of Corrosion Protection Layer in Soil Adjacent to Buried Metal Pipeline -- 1 Introduction -- 2 Lightning Strike Dispersion Modelling and Calculation -- 3 Simulation Models and Parameters -- 4 Soil Vertical Dispersion Optimization -- 5 Conclusion -- References -- Study on Dispersion Characteristics and Drag Reduction Efficiency of Transmission Line Tower Fractal Epitaxial Grounding -- 1 Introduction -- 2 Fractal Theory and Model Establishment -- 2.1 Fractal Theory -- 2.2 Model Establishment -- 3 Calculation and Analysis of Grounding Characteristics of Fractal Epitaxial Grounding Grid -- 3.1 The Influence of Angle on Grounding Characteristics -- 3.2 The Influence of Fractal Dimension on Grounding

Characteristics -- 3.3 The Influence of Fractal Layers on Grounding Characteristics -- 4 Comparison Between Fractal Epitaxial Grounding Grid and Typical Grounding Grid -- 5 Conclusion -- References -- Research on Resistance Reduction Method of Transmission Line Tower Epitaxial Grounding Based on Slope Soil Nailing Wall -- 1 Introduction -- 2 Analysis of the Influence of Different Factors on the Effect of Soil Nail Wall Assisted Resistance Reduction -- 2.1 Analysis of the Influence of the Number of Connection Lines -- 2.2 Analysis of the Influence of Connection Position -- 2.3 Analysis of the Influence of the Connection Lines Material.
2.4 Analysis of the Influence of the Location of the Pole Tower Grounding Grid -- 3 Conclusion -- References -- A Novel Detection Method for Interface Defect Development of High-Speed Train Cable Terminal -- 1 Introduction -- 2 Case Analysis -- 3 Simulation Study -- 4 Simulation Results -- 5 Experiments and Test Results -- 6 Conclusion -- References -- A 3D Modeling Method for Substations Based on Oblique Photography -- 1 Introduction -- 2 Data Acquisition -- 2.1 Study Area and UAV Selection -- 2.2 Route Design and Image Acquisition -- 3 3D Reconstruction -- 3.1 Aerial Triangulation -- 3.2 Triangulated Irregular Network Construction -- 3.3 Texture Mapping -- 3.4 3D Model of Substation -- 4 Conclusion -- References -- Simulation Study on Motion of Metal Particles During Translation of Flat Plate Electrode -- 1 Introduction -- 2 Simulation Model -- 2.1 Insulation Oil Flow Model -- 2.2 Metal Particle Motion Mode -- 2.3 Solid-liquid Two-Phase Flow Model -- 3 Simulation Results -- 3.1 Simulation Results of Fluid Motion -- 3.2 Simulation Results of Metal Particles Motion -- 4 Conclusion -- References -- The Effect of the Number of Wire Electrodes on the Performance of Wire Plate Electrostatic Precipitators -- 1 Introduction -- 2 Numerical Simulation and Result Analysis -- 2.1 Simulation Module -- 2.2 Simulation Results -- 3 Experiments and Results Analysis -- 3.1 Experimental Setup and Test Methods -- 3.2 Experimental Results -- 4 Conclusion -- References -- The Effect of Inflation Pressure on the Dielectric Recovery Strength of SF6 Circuit Breakers -- 1 Introduction -- 2 Simulation Models and Calculation Methods -- 2.1 Arc Model -- 2.2 Calculation Model for High Voltage Circuit Breakers -- 2.3 Valve Plate Motion Model -- 2.4 SF6 Thermal Critical Breakdown Field Strength -- 2.5 Calculation Method for Recovery Strength of Post Arc Dielectric.
3 Calculation Results of Electric Breakdown Characteristics -- 4 Conclusion -- References -- Investigation on Very Fast Transient Overvoltage Caused by Incomplete Separation of Air-Insulated Switches -- 1 Introduction -- 2 Description of Failure Caused by Incomplete Separation of DS -- 3 Mathematical Model -- 4 Simulations Study -- 5 Results and Discussion -- 5.1 Influence of Main Transformer Inlet Line -- 5.2 Influence of Residual Charge -- 6 Introduction -- References -- The Prediction of the Dielectric Breakdown Properties of 6% C4F7N-94% CO2 Mixtures at 300-4000 K and 0.1-3.2 MPa -- 1 Introduction -- 2 The Method of Calculation -- 3 Results and Discussion -- 3.1 eff and the (E/N)cr in 6% C4F7N-94% CO2 Mixture at Room Temperature -- 3.2 eff and the (E/N)cr in 6% C4F7N-94% CO2 Mixtures at High Temperature -- 4 Conclusions -- References -- Study on Arc Extinguishing Capability of HFO-1336mzz(E)/CO2 as SF6 Substitute Gas -- 1 Introduction -- 2 Simulation Model -- 3 Physical Parameter -- 4 Simulation Result Analysis -- 5 Conclusion -- References -- Calculation of Thermodynamic Properties and Transport Coefficients of C4F7N-PTFE Mixtures -- 1 Introduction -- 2 Calculation Principle and Method -- 3 Comparison and Analysis of Calculation Results -- 3.1 Plasma Composition -- 3.2 Thermodynamic Properties -- 3.3

Transport Properties -- 4 Discussion -- 5 Conclusion -- References -- A Physics-Informed Neural Network Model for Temperature Inversion of Axisymmetric Gas Discharge Channel -- 1 Introduction -- 2 Methodology -- 2.1 Dataset -- 2.2 PINN Network -- 2.3 Train -- 3 Results -- 3.1 Performance Under Noise-Free Condition -- 3.2 Performance in Various Noise Condition -- 4 Conclusion -- References -- Lightning Risk Assessment of 330 kV Transmission Line Under Icing Conditions in Qinghai Area -- 1 Introduction.
2 Calculation of Lightning Icing Line Related Parameters -- 2.1 Icing Thickness Calculation Model -- 2.2 Leader Model of Iced Insulator -- 3 Calculation of Lightning Icing Line Related Parameters -- 3.1 Counterattack Trip Rate -- 3.2 Shielding Failure Trip-Out Rate -- 3.3 Lightning Risk Classification Standard -- 4 Case Study -- 4.1 Analysis of Risk Assessment Results -- 5 Conclusion -- References -- Arc Radiation Characteristics of CO2-O2 Mixtures at 0.1-0.8 MPa and 300-30,000 K -- 1 Introduction -- 2 Calculation Method -- 2.1 Plasma Composition -- 2.2 NEC Method -- 3 Results and Discussion -- 3.1 Plasma Composition -- 3.2 NEC Results -- 4 Conclusion -- References -- Arc Interruption Performance of SF6/N2 Gas and Dielectric Recovery in Disconnector -- 1 Introduction -- 2 Simulation Model and Calculation Method -- 2.1 MHD Model -- 2.2 The Geometric Model of Disconnector -- 2.3 Calculation of Critical Breakdown Field Strength -- 2.4 Evaluation of the Dielectric Strength Performance of Gas Mixture -- 3 Simulation Results and Analysis -- 3.1 The Distribution of the Physical Field -- 3.2 The Calculation of Critical Breakdown Voltage -- 4 Conclusion -- References -- Analysis of Fluid Velocity and Temperature Variation Characteristics in Boundary Layer of Transformer Wall -- 1 Introduction -- 2 Simplified Analysis Model of Boundary Layer on Transformer Wall -- 2.1 Simplified Analysis Model -- 2.2 Temperature Fluid Field Control Equation -- 2.3 Boundary Conditions -- 2.4 Material Parameters -- 3 Distribution of Temperature and Fluid Field in Boundary Layer of Transformer Wall -- 3.1 Classification of Fluid Boundary Layer -- 3.2 Impact of Inlet Flow Velocity -- 3.3 Impact of Inlet Flow Temperature -- 3.4 Impact of External Ambient Temperature -- 3.5 Impact of External Heat Transfer Convective Coefficient -- 4 Conclusion -- References.
Study on Magnetic Leakage Device Parameters Suitable for Crimping Defects of Carbon Fiber Composite Core Conductor -- 1 Introduction -- 2 Finite Element Theory of Magnetic Flux Leakage Detection -- 3 Simulation Model -- 4 Simulation Analysis -- 4.1 Permanent Magnet Size Selection -- 4.2 Influence of Magnetic Pole Spacing and Radial Air Gap -- 4.3 Case Verification -- 5 Conclusion -- References -- Simulation of Arc Breaking in a 550 kV 80 kA SF6 Circuit Breaker -- 1 Introduction -- 2 Circuit Breaker Simulation Model -- 2.1 Simulation Structure Model and Boundary Conditions -- 2.2 Arc MHD Model -- 3 Simulation Results and Analysis -- 3.1 Variation Characteristics of Temperature Field -- 3.2 Variation Characteristics of Pressure Field -- 4 Conclusion -- References -- Simulation and Design of Electric Field Distribution for the Incoming Conductor Between 330 kV Terminal Tower and 750 kV Substation -- 1 Introduction -- 2 Simulation Model and Electric Field Calculation -- 2.1 Model Building -- 2.2 Electric Field Calculation -- 3 Impact of Different Factors on the Surface Electric Field Strength of Incoming Conductors -- 3.1 Impact of Terminal Tower Width on the Electric Field Strength -- 3.2 Impact of the Distance Between the Terminal Tower and the Portal Frame on the Electric Field Strength -- 3.3 Impact of the Diameter of the Conductors on the Electric Field Strength -- 4 Conclusion -- References -- Research on X Ray Live Work of UHV Transmission Line by Helicopter --

1 Introduction -- 2 Design of X Ray Live Detection Device for 1 Helicopter -- 2.1 Overall Structure of the Device -- 2.2 Equipotential Detection Tooling -- 2.3 Equipotential Control Terminal -- 3 Performance Test of X Ray Live Detection Device for 2 Helicopter -- 3.1 Electrical Performance Test -- 3.2 Mechanical Property Test -- 3.3 X Ray Shooting Test of Ultra-High Voltage Clamp.
4 Field Application.

Sommario/riassunto

This book includes original, peer-reviewed research papers from the 2023 4th International Symposium on Insulation and Discharge Computation for Power Equipment (IDCOMPU2023), held in Wuhan, China. The topics covered include but are not limited to: insulation, discharge computations, electric power equipment, and electrical materials. The papers share the latest findings in the field of insulation and discharge computations of electric power equipment, making the book a valuable asset for researchers, engineers, university students, etc.