

CONTENTS / PROGRAM

-----September 26 (Monday) Morning-----

Registration 受付 8:30~17:30 Sub Hall Lobby

Opening Ceremony 開会式 9:40-10:00 Sub Hall

Welcome by Conference Chairperson: Prof. T. Mizutani (Nagoya University)

Session S 1 10:00~11:45 Sub Hall

"New Materials, Dielectric Thin Films, Dielectric Phenomena"

「新素材、絶縁薄膜、誘電現象」

Chairperson: Y. Shibuya (Mitsubishi Electric)

S1-1 光導電性ポリイミド薄膜の導電特性と分子配向

飯田和生、中筋昭宏、陳 永和、中村修平、澤 五郎 (三重大学) ... 1

S1-2 Study on the Properties of Squarylium Dye Monolayers on a Water Surface by Maxwell Displacement Current

Xiaobin Xu, Akihiro Matsushita, Tohru Kubota
Mitsumasa Iwamoto (Tokyo Institute of Technology) ... 5

S1-3 有機発光素子内のキャリアトラップが発光に及ぼす影響

三宅成也、稲垣寿信、森 竜雄、水谷照吉 (名古屋大学) ... 9

S1-4 シアニン色素吸着アゾベンゼンLB膜素子での電気伝導及びTSCの増大

渡辺光弘、深海徹夫、新保一成、加藤景三、金子双男、小林敏志 (新潟大学) ... 13

S1-5 アラキジン酸-C₁₈TCNQ ヘテロLB膜の構造と熱刺激電流

大橋健一、加藤景三、金子双男 (新潟大学) ... 17

S1-6 半導電材料とポリイミドLB膜の接触帯電特性

伊東栄次、岩本光正 (東京工業大学) ... 21

S1-7 高充填EPRの電気伝導と超低周波誘電特性

山中三四郎、福田 正 (名城大学)、澤 五郎 (三重大学)
家田正之 (愛知工業大学)、伊藤政幸、瀬口忠男 (原子力研究所) ... 25

Japan-Korea Session J K 1 10:00~11:30 Room C-D

"Dielectric and Insulation Characteristics in Devices and Apparatus"

Chairperson: J. Y. Koo (Hanyang University)

JK1-1 Inelastic Electron Tunneling Spectroscopy of 1-layer Organic Monolayer by using a Polyimide Barrier

Won Jae Lee, Tohru Kubota, Mitsumasa Iwamoto (Tokyo Institute of Technology) ... 29

JK1-2 Role of Point Defects in Dielectric Breakdown of SiO₂ Films Deposited From Tetraethoxysilane by Plasma CVD Method

K. Ishii, D. Isshiki, Y. Ohki (Waseda University) ... 33

JK1-3 Effects of Acid-Anhydride Hardener and Postcuring Heat-treatments on Dielectric Properties of Epoxy Composites

Jong-Bae Wang, Geon-Ho Park, Cheol-Gi Shin
Jai-Woong Yoo, Joon-Ung Lee (Kwangwoon University) ... 37

JK1-4 Preparation and Electrical Properties of Unsaturated Polyester/Silica Composites

Kang Dong Pil, Han Dong Hee, Yun Mun Soo (Korea Electrotechnology Research Institute) ... 41

JK1-5 Influence of Impurity on Electric Field Distribution in Transformer Oil

-Kerr Electro-Optic Mesurement-

M. Matsuoka, R. Shimizu, K. Kato, N. Hayakawa, M. Hikita, H. Okubo (Nagoya University) ... 47

JK1-6 Electrical and Mechanical Characteristics of Polymer Phase-to-Phase Spacers and Akimbo Insulator Assemblies

T. Imakoma, Y. Suzuki, O. Fujii, T. Nakachi (NGK Insulators) ... 51

Session S 2 13:15~15:15 Sub Hall
"Electrical Conduction and Breakdown in Dielectric Materials"
「絶縁材料の電気伝導と破壊」
Chairperson: K.Kudo (Meiji University)

- S2-1 ポリメチルペンテンの電気伝導
黒田博文、朝井壮太郎、金 恩住、大木義路 (早稲田大学)、乾 昭文 (東 芝) ...55
- S2-2 ポリフェニレンサルファイド (PPS) フィルムの高温電気伝導における電極効果
宮入圭一 (信州大学)
渡辺宏聡 (東 レ) ...59
- S2-3 LDPEフィルムの局所発熱と絶縁破壊に及ぼす酸化の影響
釣本崇夫、長尾雅行、小崎正光 (豊橋技術科学大学) ...63
- S2-4 High-Field Phenomena in Various LDPE
C.Banmongkol, T.Mori, T.Mizutani (Nagoya University)
M.Ishioka, I.Ishino (Mitsubishi Petrochemical Co.Ltd) ...67
- S2-5 XLPEのトリー開始現象の検討
村田義直、片貝昭史、金岡 護 (日立電線) ...71
- S2-6 連続 Sectioning法とCT法による電気トリーの3次元再構成像とフラクタル次元
小林正三、川合博文、下村竜城、丸山 悟、工藤勝利 (明治大学) ...75
- S2-7 Ultrasonic Visualization of Electrical Trees in Polyethylene
E.Watanabe, M.Yoshizawa, T.Moriya (Tokyo Metropolitan University) ...79
- S2-8 同軸ケーブル端部に配置されたPMMAの短絡トリー
木谷 勇、福井利幸、有井清益 (愛媛大学) ...83

Japan-Korea Session J K 2 13:15~14:45 Room C・D
"Cable Insulation"
Chairperson: Y.Ohki (Waseda University)

- JK2-1 Space Charge in LDPE of Different Molecular Characteristics
Kwang S.Suh, Jung H.Koo, Kyung W. Lee (Korea University) ...87
- JK2-2 Study of Space-Charge Behavior in Polyethylene for Cable Insulation by Utilizing Laser
-Induced-Pressure-Pulse Technique
H.Kon, Y.Suzuoki, T.Mizutani (Nagoya University)
H.Shigetugu (Tokyo Electric Power Co) ...91
- JK2-3 Dielectric Loss Characteristic of Acetophenone and Cumylalcohol Doped Polyethylene
T.Nakatsuka, A.Yokoyama, H.Miyata, I.Ishikawa, T.Takahashi (Fujikura Ltd) ...95
- JK2-4 AC Tree Propagation and Surface Energy on Adhesive Interface of Different Polymers
T.Arai, S.Maruyama, S.Kobayashi, K.Kudo (Meiji University) ...99
- JK2-5 Recognition of Tree Growing Using PD Signal Analysis in Low Density Polyethylene
Blended with Organic Additive
S.H.Kang, K.J.Lim, S.G.Park (Chungbuk National Univ), D.H.Park (Wonkwang Univ) ...103
- JK2-6 High Field Dielectric Loss Tangent of Commercially Available Liquid Nitrogen
M.B.Srinivas, H.Kato, Y.Mizuno
M.Nagao, M.Kosaki (Toyohashi University of Technology) ...107

Poster Session P 1 15:30~17:30 Room A・B
"Fundamental Problems in Dielectric and Insulation Materials"
「誘電・絶縁材料の基礎的諸問題」

(Dielectric Phenomena & Measurement)

- P1-1 誘電性複合液体の誘電特性における補償効果
太田善規、日高康裕、宮入圭一 (信州大学)、水谷照吉 (名古屋大学) ...111
- P1-2 高分子電気絶縁材料の電界誘電特性の過渡応答
所 哲郎 (岐阜工業高等専門学校)、長尾雅行、小崎正光 (豊橋技術科学大学) ...115
- P1-3 異種電極金属系吸湿ポリイミド薄膜の開放電圧に及ぼすプリストレスの影響
村本裕二、長尾雅行、小崎正光 (豊橋技術科学大学) ...119
- P1-4 サーマル系カーボンブラック/ポリエチレン複合体の抵抗率と誘電特性の温度依存性
中村修平、大川忠男、澤 五郎 (三重大学)
北川恵一 (岐阜工業高等専門学校)、花田敏幸、上野 彰 (大東通信機) ...123

- P1-5 The On-line Dielectric Loss Measurement by Voltage Comparator Method
Cai Guoxiong, Hu Zhaoming (Electric Power Research Institute, China)
Wang Jianmin, Wang Sen (North China Power Administration) ...127
- P1-6 A Mathematical Method for Measurement of the Resistive Current of ZnO Surge Arrester
Songlin Qin (Shanghai Jiao Tong University) ...131
- P1-7 The Digital Measurement of MOA Resistive Current
Tang Ju, Sun Caixin, Luo Bin (Chongqing University) ...135
- P1-8 The Current Transducer Used for On-Line Insulation Monitoring
Jia Yimei, Su Fuheng (Wuhan University) ...139

(Application of New Materials & New Techniques)

- P1-9 金属ベースプリント基板の絶縁特性
岡本健次、前田賢彦、芳賀弘二 (富士電機総合研究所) ...143
- P1-10 FRPの直流課電による気中沿面帯電特性
吉田良男、田中 誠 (関西電力)、山地孝司、廣瀬昌弘 (四国電力)
三瓶雅俊、畑野雅幸 (電源開発)、木村俊則、藤井治久、仲西幸一郎 (三菱電機) ...147
- P1-11 The Contamination Performance and Pollution Test of Hybrid Insulator
Jiang Xiuchen, Fu Zhengcai, Li Feng (Shanghai Jiao Tong University) ...151
- P1-12 新フロンの絶縁破壊特性
佐藤伸治、築地 真 (三菱電機) ...155
- P1-13 Acoustic Signal Analysis for the Detection of Defects in HV Groundwall Insulation
of Generator Stator Windings
Xinyan Wu, Hengkun Xie, Songzhen Wu, Guangbin Liu (Xi'an Jiaotong University) ...159
- P1-14 The Ultrasonic Method for Locating Partial Discharge in Power Transformers
Qin Wen Ming (Shenyang Transformer Works) ...163
- P1-15 Wide Application of Infrared Diagnosis Technology on Electrical Devices
Yulan Cheng, Yong Jiang (North China Electrical Power Research Institute) ...167
- P1-16 An AI System for Dissolved Gas Analysis of Oil-immersed Equipments
G.J.Zhang (Xian Jiaotong University) ...171
- P1-17 Analysis of Dissolved Gas in Insulating Oil of Large Power Transformer
H.G.Chen (Anhui Water Resource Staff And Workers Institute)
T.Y.Li (Northeast Electrical Power Institute)
N.Gao (Xi'an Jiaotong University) ...175

(Degradation and the Detecting Techniques)

- P1-18 Electrical Treeing of Cable Materials of Polymers
Zhiyu Liang (Gansu Electric Power Test & Research Institute) ...179
- P1-19 エチレン系ポリマーにおけるインパルストリー
館野祐二、遠山典孝、清水教之 (名古屋大学) ...183
- P1-20 Expert System for Insulation Diagnosis
Y.H.Deng, L.C.Wang (Yin-Chuan Bureau of Power Distribution)
G.J.Zhang, X.H.Huang, Z.Yan (Xi'an Jiaotong University) ...187
- P1-21 An On-Line Diagnostic System for Partial Discharge in Power Transformer
D.Pan (Anhui Electric Power Test and Research Institute)
X.N.Wang, X.L.Han, Y.P.Feng (Xi'an Jiaotong University) ...191
- P1-22 Multichannel Partial Discharge Detecting Technique with Independent PC-presetting
for Channels
Gong Yihua, Cheng Zhengyu (Shanghai Electric Tool Research Institute) ...195
- P1-23 The Application of Fuzzy Logic in the Fault Diagnosis of a Power Transformer
Dong Lian-Wen (Xi'an Jiaotong University) ...199

-----September 27 (Tuesday) Morning-----

Session S 3 9:30~11:30 Sub Hall

"Insulation Degradation and the Diagnoses"

「絶縁劣化と絶縁診断」

Chairperson: Y. Ebinuma (Showa Electric Wire & Cable)

S3-1 マイカ/エポキシ絶縁の劣化機構 (2)

兼田吉治、木村 健 (三菱電機) ...203

S3-2 回転機用絶縁組織の破壊電圧の統計的解析

津久井勤 (東海大学) ...207

S3-3 CVケーブル初期欠陥検出方法に関する研究(VI) -破壊メカニズムに関する検討-

小林真一、内田克己、平田宜弘(中部電力)、田中秀郎、佐久間進(古河電気工業)
岸 幸治、井上 均(住友電気工業) ...211

S3-4 CVケーブルの交流性能に及ぼす直流課電の影響

神永建二、武田直樹(東京電力)、片貝昭史、佐々木勝彦、金岡 護(日立電線) ...215

S3-5 Behaviour of Residual Charges on Water Tree Degraded XLPE Cable

M.Zabian, S.Ikeuchi, Y.Kubota, Y.Ebinuma, Y.Fujiwara (Showa Electric Wire & Cable Co) ...219

S3-6 CVケーブルの活線劣化診断法の有効性に関する一考察

堀田昌弘、中村和成、篠田千春、橋詰俊成、谷 恒夫(矢崎電線) ...223

S3-7 押出しエチレンプロピレンゴム 絶縁超電導ケーブルの冷却・課通電試験

箕田充志、滝本 雄、長尾雅行、小崎正光(豊橋技術科学大学)

水野幸男(名古屋工業大学)、平田宜弘(中部電力)

永田雅克(フジクラ)、田中 悟(古河電気工業) ...227

S3-8 絶縁保守試験に於ける試験電圧の特性に関する考察

角田美伯(三菱電線工業) ...231

-----September 27 (Tuesday) Afternoon-----

Special Session S.S. 13:00~15:00 Sub Hall

"Progresses in Electrical Insulation Technology in China, Korea and Japan" (Invited)

Chairperson: T. Mizutani (Nagoya University)

SS-1 Recent Progress in the Technology on Insulation Diagnosis in China

Z.Yan (Xian Jiaotong University) ...235

SS-2 Progress in Electrical Insulation Materials and Technologies in Korea

Duck Chul Lee (Inha University), Dong Pil Kang (KERI)

Kwang S. Suh (Korea University) ...243

SS-3 Recent Progress in Electrical Insulation Technology of Japan

Toshikatsu Tanaka (CRIEPI & Kyushu University) ...251

Poster Session P.2 15:15~17:30 Room C.D

"Various Problems in Power Apparatus and Cable Insulations"

「機器・ケーブル絶縁における諸問題」

(Rotating Machine & Transformer)

P2-1 On-line Partial Discharge Monitoring System for Insulation of High-Voltage Motors

Wang Zhenyuan, Zhu Deheng, Tan Kexiong (Tsinghua University) ...257

P2-2 Research in Noises and Anti-interference Circuit for On-line Detecting PD in Transformer

Jia Yimei, Su Fuheng, Jiang Defu, Wang Xujun (Wuhan University) ...261

P2-3 Insulation Defects On-line Measurement & Alarm Device

Li Jianming, Yang Jinping (Sichuan Elec. Power Test & Research Ins.)

Zhang Zisheng, Li Long (Mianyang Elec. Administration) ...265

P2-4 On-line Detection Technique for the Partial Discharge of Large Scale Transformer

Meiyun Tang (Hunan Power Test and Research Institute) ...269

P2-5 Some Aspects of the Application of Transfer Function to Transformer Impulse Voltage Tests

Liu Jie (Shenyang Transformer Works) ...273

P2-6 Detection of Transformer Winding Deformation on Site

Liu Lianrui, Shao Changshun (North China Electric Power Research Institute) ...277

(Substation Apparatus)

P2-7 Fault Discharge Monitoring of Electrical Device under Operation, the Present

Situation and Prospect in China

Sheng Changda (China Electricity Council) ...281

P2-8 A Study on the On-line Monitoring and Measuring System for Electric Equipment

Insulation in HV Substations

Guan Genzhi, He Jingliang, Chen Pengyun, Zhao Shenghe (Wuhan University) ...287

P2-9 Diagnostic Measurement for Partial Discharge in the Coaxial System of GIS

X.L.Han, Y.P.Feng, Y.Qiu, J. Wang, F.S.Dai (Xian Jiaotong University) ...291

P2-10 Incubative Fault Diagnosis on GIS on Basis of Wavelet Transform

Quan Yusheng, Li Tanyun, (Northeast China Institute of Electric Power Engineering)

Chen Huagang (Anhui Water Resources Staff-Worker Institute) ...295

- P2-11 On-line Monitoring of the Leakage Current in HV Oil-minimum Breaker
Lu Fangcheng, Cai Lijun, Chen Zhiye
Xu Yuqin, Li Gengyin (North China Institute of Electric Power) ...299
- P2-12 An On-line Automatic Insulation Monitoring System for Mini-oil Circuit Breakers
Qi Meng Zhi (Xiamen Power Industrial Bureau) ...303
- P2-13 The Total Leakage Current Milliammeter - A Promising On-line Surveillance On-site
for Metal Oxide Arresters
Feng Zhu (East China Power Administration) ...307
- P2-14 Influence of Capacitive Coupling on On-line Diagnosis of 3-phase Metal Oxide
Arrester
W.G.Chen (Liaoyang Bureau of Power Distribution)
G.Y.Liu (Shandong Power Research Institute)
W.H.Xu (Xian Jiaotong University) ...311
- (Cable & Overhead Line)
- P2-15 Space Charge in Maleic Anhydride Grafted Polyethylene
Seung Hyung Lee, Jung Ki Park (KAIST)
Jae Hong Han, Kwang S. Suh (Korea University) ...315
- P2-16 Effects of Sample Preparation Process and Low Molecular Weight Chains on the Charge
Formation in LDPE
Kwang S.Suh, Jung H.Koo (Korea University), Seung H.Lee, Jung K.Park (KAIST) ...319
- P2-17 Research of Preventive Testing Method of XLPE Cable Insulation in Industry
P.C.Si (Yangzi Oil and Chemical Industry Company) ...323
- P2-18 前駆遮断法によるケーブル接続部の破壊原因の究明
岸 幸治、水谷美生、井上 均、福井 武 (住友電気工業) ...327
- P2-19 高電界下におけるポリエチレンの課電劣化メカニズム (II)
神永建二、重次浩樹 (東京電力)
羽賀 剛、魚住 剛、安田則彦、福井 武 (住友電気工業) ...331
- P2-20 C Vケーブルの直流漏れ電流ピーク発生機構に関する一考察
篠田千春、堀田昌弘、橋詰俊成、谷 恒夫 (矢崎電線)
田中康寛、高田達雄 (武蔵工業大学) ...335
- P2-21 Investigation of DC Component Diagnostic Method for Degradation of XLPE Cable
Zhang Wei, Zhu Yutao, Yang Baitun
Cao Xiaolong, Liu Yaonan (Xi'an Jiaotong University) ...339
- P2-22 The Oscillating Wave Test Method and AC Test for HV XLPE Cable On-site
Jiang Rihong (Wuhan University of Hydraulic and electric Engineering)
Zhou Liangcai (Guandong Electric Power Test and Research Inst.)
Yang Rongkai (Ministry of Energy) ...343
- P2-23 水トリーの有害性評価の検討
戸谷 敦 (東京電力)、片貝昭史 (日立電線)、武藤秀二 (古河電気工業) ...347
- P2-24 A Research on Live-line Diagnostic Method for Cable in China
Cai Danzhou, Zhou Hanliang (Shanghai Electric Cable Research Institute)
Chen Jiqun (Baoshan Iron and Steel Corporation) ...351
- P2-25 A Study on Hot-line Diagnostic Method for Degradation of XLPE Cable
Zhang Wei, Zhu Yutao, Yan Zhang (Xi'an Jiaotong University)
Peican, Chen Yirong, Zhang Jin (Yangzi Oil and Chemical Industry Company) ...355
- P2-26 Application of Itakura Distance Function and Bhattacharyya Information Distance
Function to Fault Diagnosis of Insulators
Li Tianyun, Quan Yusheng (Northeast China Institute of Electric Power Engineering)
Chen Huagang (Anhui Water Resources Staff-worker Institute) ...359
- P2-27 The Monitor of the Pollution Leakage Current On-line in ECPS
Zhaolin Liu (East China Power Administration) ...363
- Welcome Party 懇親会 18:00~19:30 SAKURA

-----September 28 (Wednesday) Morning-----

Japan-China Session J C 1 9:30~12:00 Sub Hall
"Insulation Diagnoses of Power Aparatus - I"
Chairperson: Z.Yan (Xian Jiaotong University)

- JC1-1 Digital Partial Discharge Measurement Device
Yang Jinping, Li Jianming (Sichuan Electric Power Test & Research Institute)
Tang Shiyu (Chongqing Electric Administration) ... 367
- JC1-2 Influence of Frequency Component of Detected Pulses on Partial Discharge Characteristics
T. Kato, A. Suzuki, N. Hayakawa, M. Hikita (Nagoya University)
K. Uchida (Chubu Electric Power), H. Takehana (Fujikura)
H. Okubo (Nagoya University) ... 371
- JC1-3 A Pulse Polarity Discrimination System Used for On-line Partial Discharge Monitoring
Wang Changchang, Wang Zhongdong, Tao Wei, Zhu Deheng (Tsinghua University) ... 375
- JC1-4 Wavelet Transform and Fault Diagnosis of Insulators
Qian Yusheng, Li Tanyun (Northeast China Institute of Electric Power Engineering)
Chen Huagang (Anhui Water Resource Staff-Worker Institute) ... 379
- JC1-5 An Experiment on the Detection of Partial Discharges by Microwave
Masatake Kawada, Ro Yi, Zen-ichiro Kawasaki, Kenji Matsu-ura (Osaka University) ... 383
- JC1-6 Research on Partial Discharge Ultrasonic Location in Power Transformer
Lu Fangcheng, Chen Zhiye, Wang Yong
Xu Yubin, Cai Lijun (North China Institute of Electric Power) ... 387
- JC1-7 The Locating Technique of Discharge Defects for Large Generators
Yang Xin-cun (East China Electric Power Test & Research Institute) ... 391
- JC1-8 Study and Field Practice of 0.1Hz High Voltage Test on Hydroelectric Generator Stator Insulation
Kyanyu Chu (East China Electric Power Test and Research Institute) ... 395
- JC1-9 Partial Discharge Testing of Field Power Transformer
Chen Chuyu, Liu Xiaowei, Gao Hongwei (Northwest of China Power Research Institute) ... 399
- JC1-10 A Synthetic Evaluation for the Insulation Diagnostic Methods of High Voltage Substation Equipments
Cao Chengzong (Beijing Power Supply Bureau) ... 403

Session S 4 9:30~11:30 Room C·D

"Space Charge Measurements and Interface Phenomena"

「空間電荷計測と界面現象」

Chairperson: N. Hozumi (Central Research Institute of Electric Power Industry, Japan)

- S4-1 アルゴンバッタおよび油浸ポリプロピレンフィルムの表面近傍の形態と熱刺激電流
落合鎮康、加藤 徹、小嶋憲三、冢田正之 (愛知工業大学)、水谷昭吉 (名古屋大学) ... 407
- S4-2 無極性高分子フィルムの高電界交流損失電流波形の過渡応答
遠山和之 (沼津工業高等専門学校)、所 哲郎 (岐阜工業高等専門学校)
長尾雅行、小崎正光 (豊橋技術科学大学) ... 411
- S4-3 内部固体界面を含む高分子中の空間電荷分布とその数値解析
福岡真澄 (松江工業高等専門学校)、長尾雅行、小崎正光 (豊橋技術科学大学) ... 415
- S4-4 内部空間電荷分布と熱刺激電流から考察したポリエーテルエーテルゲトンのイオン空間電荷の挙動
金 恩住、朝井壯太郎、黒田博文、大木義路 (早稲田大学) ... 419
- S4-5 パルス静電応力法における信号圧力波の減衰と分散の補正処理
村田光一、田中康寛、高田達雄 (武蔵工業大学)、李 英、相原 貢 (昭和電線電纜) ... 423
- S4-6 ポリプロピレン中の空間電荷と絶縁破壊
鈴置保雄、服部恒司、水谷昭吉 (名古屋大学)、重次浩樹 (東京電力) ... 427
- S4-7 高温下におけるポリエチレン中の空間電荷分布 - パルス静電応力法による測定 -
魚住 剛、安田則彦、福井 武 (住友電気工業) ... 431
- S4-8 直流高電界下における架橋ポリエチレン絶縁体中の空間電荷の形成と減衰
穂積直裕、武田敏尚、鈴木 寛、岡本達希 (電力中央研究所)
渡辺和夫、渡辺明年、宮田裕之 (フジクラ) ... 435

-----September 28 (Wednesday) Afternoon-----

Japan-China Session J C 2 13:30~16:00 Sub Hall

"Insulation Diagnoses of Power Apparatus - II"

Chairperson: K. Matsu-ura (Osaka University)

- JC2-1 A Study of the Measuring Technique for Micro-Gas Concentration Dissolved in the Transformer Oil
Xue Wude, Lan Zhida, Ge Qiren, Cao Jiangmin (Shanghai Institute of Electric Power) ...439
- JC2-2 Study on the Deterioration Characteristics of Capacitors
S.Okabe, M.Koto (Toyko Electric Power Company)
Y.Hayashi, T.Nara, K.Suganuma, K.Takahashi (Nisshin Electric Co) ...443
- JC2-3 On-line Measurement of C_x and $\tan \delta$ on the Type of Capacitive Electric Equipment
Wang Jinghan, Xu Shikum, Yang Haijun (Changchun Power Supply Bureau)
Ma Weiping (Jilin Power Test & Research Institute) ...447
- JC2-4 Deterioration Diagnosis of 22-33kV XLPE Cables by Residual Charge Measurement
Y.Ikeda, N.Hozumi (Central Research Institute of Electric Power Industry) ...451
- JC2-5 Development of Hot-line Diagnosis Method for XLPE Cables by Measurement of Harmonics Current
Kenichi Hirotsu, Katsuhiko Hosoe, Hitoshi Inoue
Tetsuji Matsuike, Kenji Motoi (Sumitomo Electric Industries, Ltd) ...455
- JC2-6 Dynamic Observation of Surface Charge Distribution by Electrooptical Pockels Effect
Yongchang Zhu, Tatsuo Takada (Musashi Institute of Technology)
De-min Tu (Xi'an Jiaotong University) ...459
- JC2-7 The Measurements of Voltage Distribution of 3-phase MOA
Wang Liying, Xie Xiuyu, Chu Ruihong, Shangguan Xiaofeng
Zhou Chuanming (Northwest Electrical Power Testing & Research Institute) ...463
- JC2-8 Development of a Remote Sensing System for Faulty Suspension Insulators
Takehiko Kikuchi, Akio Ozawa (Tokyo Electric Power Company)
Ryosuke Matsuoka, Masahiro Akizuki (NGK Insulators, LTD) ...467
- JC2-9 Instrument of Suspensive Insulator Distribution and Diagnosis of Inferior Insulators
Zhang Zhong-wu (Northwest Electric Research Institute)
Feng Hai-Chao (Xi'an Electricity Bureau) ...471
- JC2-10 Diagnostic Method and Criterion of Low and Zero Resistance Insulators
Fu Zhengcai, Jiang Xiuchen, Han Zhendong (Shanghai Jiaotong University) ...475

Session S 5 13:30~15:15 Room C·D

"Partial Discharge Measurements and Dielectric Diagnoses"

「部分放電計測と絶縁診断」

Chairperson: R. Takeuchi (Hitachi)

- S5-1 ボイド放電発光と放電電荷分布の位相角解析
浦野幸治、江原由泰、岸田治夫、伊藤泰郎 (武蔵工業大学) ...479
- S5-2 ポリイミドの部分放電パターンに対する周波数加速の影響
伊藤邦博、鈴置保雄、水谷照吉 (名古屋大学)、内田克己 (中部電力) ...483
- S5-3 部分放電パルス系列の自己相関分析
岡本達希、穂積直裕 (電力中央研究所) ...487
- S5-4 Partial Discharge From Electrical Treeing and Simulation by Using The Monte Carlo Method
Suwarno, H.Yamauchi, Y.Suzuoki, T.Mizutani (Nagoya University)
K.Uchida (Chubu Electric Power Company) ...491
- S5-5 印加電圧周波数と群小部分放電の発生について
石田隆弘 (静岡理工科大学)、長尾雅行、小崎正光 (豊橋技術科学大学) ...495
- S5-6 タービン発電機の運転中部分放電計測法の研究
伊藤恵一、兼田吉治、北村重雄、木村 健 (三菱電機)
田中高穂、十倉英樹、塩田 鉄 (関西電力) ...499
- S5-7 反射吸光度法による絶縁材料の熱劣化診断
竹沢由高、赤坂伸一、小山 徹 (日立製作所)
宮 寿一、横森経雄、下寺 誠 (日立ビルシステム) ...503

Closing of Sessions 16:00~16:15 Sub Hall

Address by Executive Committee Chairperson: Prof. K. Matsu-ura (Osaka University)

-----September 29 (Thursday), 30 (Friday) -----

Technical Visits to Some Facilities related to Electrical Insulation Diagnoses of Transformers, Cables, and Gas Insulated Switchgears.