

《电力自动化设备》2007 年总目次

(第 27 卷 第 1~12 期)

中国电力教育大学(校)长 联席会议学术论文专栏

- 基于适应型 Petri 网的多环电网方向保护简单回路拓扑分析
..... 蔡国伟,王建元,潘超,等(1,1)
- 分散式能源发电接入电力系统科学技术问题的研究
..... 张保会(12,1)

特高压技术论坛

- 发展特高压交流输电,建设坚强的国家电网
..... 杜至刚,牛林,赵建国(5,1)
- 特高压交、直流输电的适用场合及其技术比较
..... 周浩,钟一俊(5,6)
- 建议直流远送/稳控互联各大区强化的同步网,避免全国
1000 kV 联网 蒙定中(5,13)
- 探讨全国电力系统安全、可靠运行的基础
——评“特高压电网安全对策研究” 张育英(6,122)
- 交流特高压在中国应用的经济和安全分析研究 王仲鸿(10,1)
- 特高压输电线路分裂导线表面电位梯度的计算及其特性分析
..... 牛林,杜至刚,赵建国(10,5)

分析与研究

- 基于模糊神经网络高压电气设备绝缘状况评价方法研究
..... 孙和义,浦昭邦,赵学增(1,5)
- 直流输电系统网损研究(英文) 李战鹰,任震,陈永进(1,9)
- 基于检测暂态高频电流的配电网故障处理方法研究
..... 王刚军,史燕琨,郭志忠(1,13)
- 并联有源滤波器输出 LCL 滤波器研究
..... 武健,徐殿国,何娜(1,17)
- 广义内插小波在电能质量扰动信号分析中应用
..... 杨进,李庚银,周明,等(1,21)
- 基于单周控制的三电平三相四线制有源电力滤波器
..... 雷鹏,周林,周莉,等(1,26)
- 自适应免疫粒子群算法在动态无功优化中应用
..... 沈茂亚,丁晓群,王宽,等(1,31)
- 新型有源电力滤波器补偿特性研究
..... 吴非,解大,张延迟(1,36)
- 基于可控抗器的单调谐波滤波器 于明涛,陈建业,王赞基(1,39)
- 有源电力滤波器仿真研究 华晓萍,王奔,孟凌凌,等(1,42)
- 地区电网图形化综合故障分析与继电保护测试软件研究
..... 李渊,蔡泽祥,曾伟东,等(1,46)
- 基于 S-Function 的 PWM 控制系统仿真
..... 郝继飞,邢青青,张琳(1,50)
- 电流互感器的误差分析与工程计算
..... 曹团结,张剑,尹项根,等(1,53)
- 分散励磁式船舶电力系统鲁棒控制器研究 朱志宇,陆南(1,57)
- 基于磁通控制消弧线圈的注入式选线新方法
..... 李建山,陈乔夫,张宇,等(1,61)
- 安全数据网的构建及其在河南电力调度数据网应用
..... 罗汉武,李昉,张栋(1,65)
- 磁阀式可控并联电抗器模型试验研究
..... 赵志强,李众祥,张喜乐(1,68)
- 提高电源滤波器插入损耗措施的研究
..... 孙振,耿克强,由建,等(1,71)
- 中压系统保护用电流互感器参数选择方法
..... 袁季修,盛和乐,秦应力,等(2,1)
- 水轮发电机主保护配置方案设计
..... 桂林,王祥珩,张群刚,等(2,6)
- 动态电压恢复器的双前馈控制策略研究
..... 史伟伟,唐国庆,李俊(2,11)

- 基于参数协调的可控相间功率控制器调节特性研究
..... 李娟,赵露,张冰冰,等(2,16)
- 电源过度投资的博弈分析 汪拥军,文福拴,孙东川(2,20)
- 遗传算法在 UPFC 的 PID 控制器参数优化中应用
..... 吴红斌,杨仪松,丁明,等(2,24)
- 基于负序电流判别的变压器差动保护零序电流自动补偿方法
..... 吴大立,尹项根,张哲,等(2,28)
- 基于模型的变压器保护判据分析与改进 韩正庆,刘淑萍(2,31)
- 自耦补偿与谐波屏蔽换流变压器保护原理及判据整定
..... 罗隆福,李勇,许加柱,等(2,35)
- 新型厂矿企业配电网谐波抑制和无功补偿方案
..... 唐杰,罗安,范瑞祥,等(2,39)
- 低压电力线载波通信的信道特性分析与抗干扰措施
..... 孙秀娟,罗运虎,刘志海,等(2,43)
- 扩展卡尔曼滤波在动态负荷参数辨识中应用
..... 仲卫进,艾芊(2,47)
- 基于滤波预处理的小波故障检测方法 刘毅华,赵光宙(2,51)
- 110 kV GIS 变电所进线电缆末端雷电过电压研究
..... 丁晨,郑建勇,项玲(2,55)
- 基于 ARM 7 的 GPRS 无线上网研究
..... 李安伏,姬秀荔,张继军(2,59)
- 基于 DSP 矢量控制中检测反馈电流新方法
..... 翟小飞,张俊洪,赵镜红(2,62)
- 基于 GPS 的广域保护终端装置研究
..... 阳世荣,王少荣,程时杰(2,65)
- 基于 PSCAD/EMTDC 的背靠背高压直流输电系统仿真
..... 高晓旺,周勇,康鲁豫(2,69)
- 单相重合时序对系统暂态稳定的影响
..... 束洪春,孙士云,董俊,等(3,1)
- 多功能柔性功率调节器的矢量励磁控制
..... 李刚,刘晓瑞,文劲宇,等(3,5)
- 基于价格歧视的区域差别电价机制
..... 汪拥军,文福拴,孙东川(3,10)
- 串联型可控饱和电抗器谐波特性分析
..... 牟宪民,魏晓霞,纪延超,等(3,14)
- 基于 T-S 模糊模型的球磨机负荷控制系统
..... 刘蓉,吕震中(3,17)
- 注入式混合型有源电力滤波器稳定性研究 汤赐(3,21)
- 电压稳定约束的最优潮流研究 黄海伦,韦化,阳育德(3,26)
- 不对称系统中基于 FBD 理论的无功电流快速检测方法
..... 伏祥运,王建赓,纪延超(3,30)
- 高压直流电网整流端的旁路控制策略 王培昌,张俊星(3,34)
- 基于小波和神经网络的电能质量扰动信号数据压缩
..... 周厚奎(3,38)
- 含离散变量的大规模电力系统无功优化
..... 石韦,韦化,白晓清(3,41)
- 电子式互感器相位补偿方法研究
..... 阳靖,周有庆,刘琨(3,45)
- 一种基于节点阻抗阵快速求取零序电流保护高段
保护范围的新方法 蔡黎,王星华,石东源,等(3,49)
- 综合考虑成本组成及其分摊的输电定价新方法
..... 李会杰,姚建刚(3,53)
- 微机相控整流式充电机的改进分析
..... 巩晓昕,郝伟兵,颜湘武,等(3,57)
- HVDC 中单神经元自适应 PID 控制方法研究
..... 赵静,张志文,肖湘(3,61)
- 考虑消除阻塞的分段竞价电力市场出清算法
..... 李林川,顾丽梅,赵森林(4,1)
- 基于形态学的 HVDC 线路故障识别与定位方法研究
..... 束洪春,王超,张杰,等(4,6)

电容电压初值对 CVT 铁磁谐振影响的仿真研究 杨育霞,马朝华,许 珉(4,10)	基于半控桥的三相接地系统短路限流器及其控制方法 张艳莉,费万民,姜宁秋,等(6,51)
Delta 变换型 UPS 的控制策略及仿真研究 ... 刘维罡,沈颂华(4,14)	基于同步相量测量的同杆双回路继电保护方案的研究 蔡国伟,周国屏,李 凌(6,56)
基于小波包分析的配电网故障选线新方法 庞清乐,孙同景,孙 波,等(4,19)	应用三次样条函数快速计算插值 FFT 算法 孙同明,许 珉,杨育霞(6,60)
梯级水电站长期多目标模糊优化调度新模型 胡国强,贺仁睦(4,23)	无功调控对暂态功角稳定性的影响 王正风,吴 迪(6,63)
Windows 环境下相量测量系统性能分析 刘炳旭,赵建国,高厚磊(4,28)	工频信号测量中参数自寻优智能采样法的研究 潘文诚(6,66)
一种基于导数的实时频率跟踪算法 张 超,谭建成(4,32)	GIS 在线检测中局部放电和外部干扰信号的识别 卢 毅,杨 静(6,71)
预防 10 kV 系统电压无功控制装置故障策略研究 苏文博,孙士民,刘 娟,等(4,35)	电机转子系统早期故障可视化检测的差分振子法 李 楠,赵东成,李虹波,等(6,74)
论等耗量微增率和等网损微增率与最优潮流的关系 王正风,汤 伟,吴 昊,等(4,39)	一种新型单相并联型有源电力滤波器 陈煜达,陈乔夫,张长征,等(6,78)
并联运行电动机短路故障仿真及保护对策 刘志成,尹项根,张 哲,等(4,42)	基于改进遗传算法的非线性励磁系统参数辨识 赵书强,王 磊,马燕峰,等(7,1)
新型同杆双回线自适应重合闸方案研究 朱建红,陈福锋,魏 曜,等(4,47)	电力负荷模型结构的样条函数描述 ... 章 健,沈 峰,贺仁睦(7,5)
电力电缆护层电压补偿装置研究 姜 宁,王东海,王春宁,等(4,52)	BP 学习算法在 CNN 发电机建模中应用 施伟锋(7,9)
UPFC 新型非线性控制策略 奚玲玲,艾 芊,陈 陈(4,55)	电力系统暂态稳定数字仿真有效性评价 张恒旭,张 宁,刘玉田(7,13)
双模糊电力系统稳定器实现 莫 娜,田建设(4,60)	新型单相低谐波饱和式可控电抗器 牟宪民,王建勋,胡 泰,等(7,17)
基于小波预处理技术的低频振荡 Prony 分析 刘 森,赵书强,于赞梅,等(4,64)	基于 PLC 的水力发电机组模糊控制器 侯树文,黄伟锋,宋建娜,等(7,21)
基于频率跟踪的定频采样测量算法 卜广金,戴 静,李 明,等(4,68)	并网分散电源的解列与孤岛运行 丁 磊,潘贞存,苏永智,等(7,25)
直流输电系统控制参数对交直流连接母线电压幅值的影响 刘崇茹,张伯明(5,23)	一种简单的预测电流控制新方法 郭自勇,周有庆,郭利敏,等(7,29)
同步发电机阻尼绕组和磁路饱和对低频振荡阻尼的影响 徐英新,王西田,杨 帆,等(5,28)	基于贝叶斯网络的电网故障诊断 朱永利,王 艳,耿兰芹,等(7,33)
基于免疫算法的无刷励磁发电机整流器故障诊断 刘 念,谢 驰,王 涛,等(5,32)	基于指纹相似性的发电机局部放电稳定性分析 钱 勇,黄成军,黄方能,等(7,37)
电厂厂用电快切装置投切条件分析 洪佩孙(5,36)	一种电压源型有源电力滤波器的新型控制方法 张秀平,钟 奇(7,42)
基于小波变换和混合神经网络的短期负荷预测 尹成群,康丽峰,李 丽,等(5,40)	基于 RLS 自适应算法的 APF 电流检测 李 萍,刘小河(7,46)
基于交叉耦合与交叉解耦的 UPFC 控制性能对比 蔡 松,段善旭,蔡 礼(5,45)	基于有限元法的变压器漏感计算在绕组变形中的应用 李 朋,郝治国,张保会,等(7,49)
基于线调频小波变换的谐波快速可视化识别方法 胡国胜,王 颖(5,49)	基于变步长 LMS 自适应陷波算法的电气信号频率测量 欧立权,黄 纯,刘云滢(7,54)
改进非分离二维离散小波的数据压缩算法 ... 赵艳粉,杨洪耕(5,53)	兆瓦级永磁直驱风力发电机组变流技术 徐 锋,王 辉,杨韬仪(7,57)
SVC 对电力系统频率稳定性影响的仿真分析 吴 起,林 莉,牟道槐,等(5,58)	基于分布式发电与 SVG 优化配置的调压方法 白 茜,李 鹏(7,62)
光学电流互感器对线路差动保护的影响 顾黄晶,张沛超(5,61)	基于复合控制的中频逆变电源研究 刁元均,邹 滨(7,66)
基于约束非线性规划的励磁系统参数优化 ... 王杨正,蒋 平(5,65)	基于线路修正传输极限和交流分布因子的 ATC 快速计算 孙荣富,宋永华,张昌华,等(8,1)
电力系统频率动态过程仿真中锅炉动态特性影响研究 施 翔,刘洪波,徐兴伟,等(5,69)	基于正规形理论的多馈入交直流输电系统非线性模式分析 杨 秀,徐光虎(8,6)
基于结构保留 LDAE 的 SSO 模型及其广义特征根分析 刘皓明,余 畅,倪以信(6,1)	分布式发电系统的不平衡三相潮流计算 王守相,黄丽娟,王成山,等(8,11)
基于三相全桥逆变器的 DVR 单周控制策略研究 李 承,林 红,杨红权(6,8)	发电侧峰谷分时电价设计及电量分配优化模型 王绵斌,谭忠富,张 蓉,等(8,16)
一种点对点阻塞电价计算方法 ... 张瑞友,韩 水,张近朱,等(6,13)	单周期控制的三相 PWM 整流器的动态特性研究 雷 涛,张晓斌,林 辉,等(8,21)
基于暂态量和小波包的配电网故障选线方法 毕研秋,赵建国(6,17)	基于广义回归神经网络的电力系统中长期负荷预测 姚李孝,刘学琴,伍 利,等(8,26)
变电站铁磁谐振仿真分析及抑制措施研究 司马文霞,郭 飞,杨 庆,等(6,22)	互联电力交易合同参数优化模型 ... 王建斌,康 勇,谭忠富(8,30)
大型电力变压器低压侧绕组直流电阻测试新方法 梁志瑞,甄旭锋,牛胜锁(6,27)	高压直流输电系统中换相失败 Hypersim 仿真分析 林凌雪,张 尧,钟 庆,等(8,33)
变压器局部放电在线监测超高频 Hilbert 分形天线研究 李 剑,宁佳欣,金卓睿,等(6,31)	带电压调节的非线性鲁棒励磁控制策略研究 王锡淮,郑天府,肖健梅(8,38)
风电系统容量的优化配置探讨 ... 李凤婷,晁 勤,童 菲,等(6,36)	三相五芯柱变压器内部故障仿真模型研究 ... 郝文斌,李群湛(8,43)
用于提高电压稳定裕度的发电机无功出力管理 苏永春,程时杰,文劲宇(6,39)	零序电压移相极化的自适应阻抗继电器研究 杨 兰,杨廷方,屈桂银,等(8,47)
考虑需求侧竞价的发电公司竞价策略分析 宋宏坤,汤玉东,唐国庆,等(6,43)	氧化锌避雷器式故障限流器对电力系统暂态稳定的影响 刘洪顺,李庆民,徐 亮,等(8,51)
结合系统调峰容量比确定抽水蓄能机组装机容量方法 曹 昉,张粒子(6,47)	

一种新颖的矩阵变换器 PWM 脉冲产生方法	刘 强,蔡泽祥,詹少伟,等(11,8)
FACTS 装置在风电场中的无功补偿原理与仿真	提高电力系统大扰动稳定性的最优分岔控制策略
远程控制系统中延补偿策略研究	顾 伟,蒋 平,唐国庆(11,12)
一种 FIR 高阶多通带数字滤波器的优化设计方法	基于增益阻抗理论的故障选线方法
稳流型开关电源控制系统研究	动态电压恢复器控制策略研究
基于电力网络一次调频动态模型建立及仿真	蔡林海,荆 平,武守远,等(11,22)
电力系统无功优化的二次变异遗传算法	基于多因素小波分析的神经网络短期现货电价预测方法
基于 Prony 辨识的次同步阻尼控制器研究	苏 娟,杜松怀,李才华(11,26)
一种基于线路相关集的事故预警系统	$p-q-r$ 法与 FBD 法在三相四线制系统谐波电流检测中的对比
一次回路形成电快速瞬变脉冲群骚扰的研究及防护	陈 娟,郑建勇,丁祖军,等(11,30)
不平衡补偿时静止同步补偿器的分相控制	基于独立分量分析的电压闪变检测方法
基于 Matlab 的变压器差动保护闭环仿真研究	基于可变电抗的高压软启动器研究
录波分析软件中的图形状态记忆算法	袁佑新,王亚兰,彭万权,等(11,38)
高精度插值 FFT 谐波分析	微机保护测控装置定点数的开方计算方法
基于虚拟阻抗模型的电流互感器饱和判据	姚 斌,陈玉涛,李静正(11,42)
基于最小二乘支持向量机的电力变压器故障诊断	变论域自组织模糊 PID 控制在逆变电源中的应用
一种基于差动电流波形特征的励磁涌流识别新方法	黄冬梅,程树康,李 军(11,45)
基于曲线拟合法的的新型定制电力设备快速检测算法	模糊 RBF 自整定 PID 控制器在过热汽温控制中应用
基于高频暂态分量相关性的选择性漏电保护	王万召,赵兴涛,宋艳萍(11,48)
三侧同杆双回线互联的 T 型线路测距新方法	引入三相不平衡度的低压电网理论线损计算
单相五电平逆变器的多载波 PWM 方法分析	郭 峰,姚莉娜,刘 恒,等(11,51)
基于可靠性分析的微机继电保护设备最佳检修周期研究	基于双边供电的直流牵引馈线保护研究
基于粒子群优化算法的过程模型辨识	基于多绕组变压器隔离型变换器的链式 STATCOM 研究
移相整流变压器抑制过电压研究	刘海波,毛承雄,陆继明,等(12,5)
电力系统输电通道大容量静止无功补偿系统研究及其应用	多时段可中断负荷合同的市场价值评估
用于 PD 信号去噪的 dbN 序列有效复小波构造研究	王建学,王锡凡,张 显,等(12,10)
应用信赖域法的广域阻尼控制器参数协调优化	高压直流建模研究的相关问题
提高电力系统小扰动稳定性的最优分岔控制策略	毛晓明,张 尧,张 艳(12,14)
零序分量注入型三电流感应电动机矢量控制系统	基于最优化方法的事后系统分岔点追踪
磁光式光学电流互感器运行稳定性评价	顾 伟,蒋 平,许 琦(12,18)
先进的高压侧电压控制改善电压稳定性	注入式混合型有源滤波器研究(英文)
基于交流灵敏度的电能交易与输电权的统一拍卖	汤 赐,罗 安,李建奇,等(12,27)
注入式混合型有源滤波器的复合型滞环控制方法研究	汽轮发电机组故障诊断的“规则+例外”知识获取模型
电容换相逆变器换相失败的研究	黄文涛,王伟杰,赵学增,等(12,27)
变压器电压恢复涌流分析	变压器油中气体检测专用色谱柱分离方程研究
并联型有源滤波器复合控制方法的仿真研究	周利军,吴广宁,王云飞(12,32)
大型变速恒频风电系统的建模与仿真	一种实用的软件测频算法
基于六脉波电压源逆变器的 SSSC 直流电容电压控制机理	方存洋,陈玉兰,潘汉广(12,36)
基于实际装置的距离保护动态仿真研究	单相接地故障零模暂态特征的仿真分析
	张新慧,薛永端,潘贞存,等(12,39)
	基于可拓学的电能质量综合评价
	丁 立,贾秀芳,赵成勇,等(12,44)
	基于变电抗的接地选线新方法
	何润华,潘 靖,霍春燕(12,48)
	基于馈线分块等值的中压配电网可靠性评估改进 FMEA 法
	任 倩,张勇军,任 震,等(12,53)
	SVC 与 STATCOM 的综合比较分析
	周建丰,顾亚琴,韦寿祺(12,57)
	设计与研制
	继电保护柔性定值单管理系统开发
	谢 俊,石东源,张德泉,等(1,74)
	基于 SPCE 061A 的新型接地电阻测量仪研制
	刘正平,刘昊明(1,78)
	基于 UC3854 的高功率因数校正器设计
	张厚升(1,80)
	乒乓操作法在增量式时栅信号处理电路设计中应用
	王彦刚,彭东林,易文翠,等(1,84)
	基于 ARM 和以太网的振动信号采集器设计
	彭国盛(1,87)
	基于模糊神经网络的凝汽器故障诊断及性能监测
	滕丕忠,张 聘,陈荣生,等(1,90)
	电能质量监测系统中基于 Modbus RTU 的多机通信
	李 娟,张 波,丘东元(1,93)
	基于 DSP 的微机保护综合实验装置设计
	王洪涛,周有庆,彭红海(1,97)
	基于 DSP 和 GR47 无线模块的配电变压器监控终端设计
	夏晓玲,郑琼华,沈昱明(1,101)
	地铁主控系统防雷接地研究
	赵 静,何正友,钱清泉(1,104)
	配电网自动无功补偿装置研制
	钟 庆,张 尧,芮东阳(2,71)
	继电保护中光纤通信技术应用
	李峥峰,杨曜年,喻道远,等(2,75)
	基于 IEC 61850 标准的新型数字保护平台研究与实现

..... 徐科,吴在军,闵涛,等(2,79)

基于UML的稳定控制系统逻辑模块软件设计
..... 顿敦,李哲,秦红霞,等(2,85)

电网继电保护动作仿真软件开发
..... 刘云,陈金富,杨雄平,等(2,90)

新型半导体隔离式高功率因数开关电源
..... 陶骞,刘开培,王禹民(2,93)

基于虚拟仪器的电网过电压在线监测系统
..... 刘斌,任力,徐兴华,等(2,97)

负序保护在低压隔爆电动机综合保护中应用
..... 冯凯,陈迎松,胡涛(2,101)

抗干扰技术在电力变压器局部放电在线监测中应用
..... 王涛,黄跃华,贺景良,等(2,104)

具有自校核功能的配电网调度操作票生成系统
..... 丁鹏,张焰,侯凤岭,等(2,107)

IEC60870-5-103传输规约在中低压微机保护测控装置
中应用 闫天军,梅慧楠,吴在军(2,111)

一种适用于安全稳定控制系统的备用电源自投装置
..... 潘书燕,吕良君,周洪涛,等(2,114)

基于C8051F064混合信号微控制器的SMBus应用
..... 章戛,陆斌,李军(2,118)

基于扫频法配电网电容电流测量装置研制
..... 严干贵,李果雪,张正茂,等(3,64)

基于ISP器件的多路数据采样与测量系统设计
..... 王素珍,迟宗涛,徐克宝(3,69)

基于ARM和VxWorks的新型发电机微机励磁调节装置
..... 徐科,窦小波,胡敏强,等(3,73)

面向LonWorks网络的嵌入式Web服务器设计与实现
..... 汪阳,黄天成(3,77)

基于VxWorks的通信服务器实时多任务软件设计
..... 杨晓静,胡敏强,吴在军,等(3,81)

基于CPLD和DSP的轻型直流输电换流控制器设计
..... 宋小权,孙冬生(3,86)

基于LabVIEW DSP模块的手持式电力谐波分析仪
..... 谢勃,卫志农,陈斌(3,89)

基于AT89S8253的多时段载波表设计 夏喜龙,卢健康(3,93)

强磁场装置有源直流滤波器设计 ... 王伟利,刘小宁,王磊(3,96)

基于GSM短消息的变电站无人值班系统
..... 晏远忠,岳青松,游建军(3,99)

地方电网梯级水电信息管理查询系统开发
..... 罗云霞,吴剑凌,周慕逊,等(4,87)

基于现场可编程门阵列的电能质量监测系统
..... 牛博,王建华,宋政湘,等(4,91)

基于现场总线的煤矿供电自动化系统
..... 邓先明,杨宇,方荣惠(4,95)

发电厂设备资产管理系统的开发与开发
..... 唐波,孟遂民,王刚(4,99)

小电流接地选线装置可编程采样系统设计
..... 石吉银,李欣然,李志军,等(4,103)

基于关口表数据库的输电费用在线实时计算系统开发
..... 李会杰,姚建刚,谷林峰,等(4,107)

地区电网继电保护仿真智能系统
..... 钱军,冯林桥,张文涛,等(4,111)

用优先权编码器扩展PIC的外部中断源
..... 刘子胥,陈金辉,姚振静(4,115)

IPM智能功率模块电路设计及其在有源滤波器装置中应用
..... 袁涛,郑建勇,曾伟,等(5,88)

三相偏磁桥路型限流器控制系统研制
..... 窦会明,蔡旭,金之俭(5,91)

电力调度防误系统开发 朱兴柯,白彪(5,96)

一种改良的单相功率因数校正器 张厚升(5,101)

利用LMI技术设计多机系统TCSC鲁棒控制器
..... 杨洋,张建成(5,105)

基于DSP、CPLD和单片机的高速数据采集装置设计
..... 严志强,王雨,任开春,等(5,110)

一种新型小电流接地综合选线装置
..... 陈忠仁,李微波,吴维宁(5,114)

基于光电互感器的数字式母线保护
..... 唐治国,许国斌,张发金(5,118)

智能电器以太网接入服务器设计
..... 牛博,宋政湘,王建华,等(6,81)

基于AT91RM9200的三相工频电参数测量系统设计
..... 关键,刘林山(6,85)

基于IR1150的单相高功率因数整流器设计与实现 ... 张厚升(6,90)

基于AT89C55WD的微机继电保护实验装置研制
..... 韩应江,员莹(6,95)

高精度电能表现场校验仪设计 毛晓波,黄云峰,黄俊杰(7,69)

注入式混合型有源滤波器的参数设计及工程应用 汤赐(7,74)

基于双CPU系统的综合选线装置设计
..... 马姗姗,张帆,潘贞存,等(7,80)

利用AT90S1200单片机实现A/D转换 张新海,张睿彬(7,84)

基于TMS320VC5509DSP片内USB接口的数据通信
..... 冷华,李欣然,李志军,等(7,87)

电力电缆半导电屏蔽电阻率测试仪 王锦程,胡燕(7,90)

单相有源功率因数校正电路的设计与仿真 ... 蒋龙浩,李岩(7,93)

中低压配电静止无功发生器的智能集成驱动技术
..... 唐杰,罗安,夏向阳,等(8,91)

基于Matlab设计的软开关型APFC电路
..... 任开春,严志强,王永民(8,95)

嵌入式技术在电力串口设备网络化中应用 ... 刁博,方彦军(8,99)

基于单片机和CPLD的同步发电机自动准同期装置设计
..... 张晓英,党存禄,王树东(8,102)

基于DSP和嵌入式系统的便携式数据采集分析装置设计
..... 刘东亮,焦彦军,张新国(8,106)

220kV集控站的设计与实现 夏友斌,开圣武,胡金双(8,109)

基于uC/OS+LwIP的网口转串口模块的实现
..... 龙海南,梁朝博(8,113)

LC输出滤波器的改进及在STATCOM应用中优化设计
..... 荣飞,罗安,盘宏斌,等(9,83)

微机距离保护仿真系统的设计与实现
..... 邹贵彬,高厚磊,江世芳(9,88)

高压GIS控制及保护装置研制 ... 陈晓明,苗世洪,陈洪才,等(9,91)

大型变压器微机保护装置研制
..... 鲍凯鹏,张哲,尹项根,等(9,95)

基于CPLD与SDRAM的视频信号采集系统设计
..... 曹新莉,蒋飞,朱晔(9,100)

基于IEC61850的配电线路保护IED设计 ... 徐斌,刘子英(9,103)

基于DSP技术的新型微机线路保护装置 ... 鲍雅萍,李晓红(9,107)

基于单片机的LCD显示终端设计 陈享成,耿长青(9,110)

变压器经济运行决策软件设计
..... 杨威,潘文霞,范永威,等(9,113)

基于嵌入式系统的接地网测量装置 方彦军,刁博(10,73)

自由故障分析软件系统开发 ... 桂勋,青松,冯瀚,等(10,77)

分布式发电环境下的嵌入式电力负荷管理系统设计与实现
..... 裴玮,邓卫,孔力,等(10,83)

一种新的适合分布安装的消弧线圈 唐轶,陈庆(11,87)

基于CPLD的低压系统无功无级柔性补偿器
..... 孙宏国,胡国文(11,91)

配变监控系统的防窃电功能实现 ... 李涛,杜晓平,刘焕光(11,95)

三相不平衡度数字检测系统设计 ... 邵如平,韩正伟,林锦国(11,98)

高压无功补偿及谐波抑制装置设计
..... 李晓刚,程勇,崔然(11,101)

基于DSP和PWM逆变器的新型自动调谐消弧系统设计
..... 程路,陈乔夫,张宇(12,61)

基于双DSP的磁浮开关磁阻电机全数字控制器
..... 赵楠,葛宝明(12,65)

基于DSP的UPFC监控平台设计 曹玉胜,陈允平(12,70)

可控串联电容补偿动态模拟实验装置设计
..... 姚伟,杨毅,孙海顺,等(12,76)

无极灯电子镇流器的频域分析与设计 ... 李莺,罗毅(12,81)

电厂厂用电监控系统ECS通信技术探讨 臧建中(1,108)

经验与探讨

变电站监控系统事故总信号解决方案探讨	朱 骏(1,112)
动态电压质量问题检测方法	罗小莉,杨 宇(1,115)
微机保护装置中 PLC 功能的实现和应用	谢志迅,徐礼葆(2,121)

探讨与应用

多 Agent 技术在继电保护中的应用	王慧芳,何奔腾,时洪禹(3,102)
广域监控系统研究的新进展	冯 源,夏 立(3,107)
Profibus-DP 技术在地铁供电监控系统中应用	李小将,何正友,王志强,等(3,112)
分布式内存数据库在变电站自动化系统中应用	钟 昀,詹成国(3,116)
XML Schema 在变电站 IED 配置中应用	樊 陈,陈小川(3,120)
Simulink 在电路分析中应用	王 群,耿云玲(4,71)
并联电抗器在超(特)高压电网中应用及发展	张 丽,徐玉琴(4,75)
以太网 103 规约及其在水电厂自动化系统中应用	邓素碧,赵振龙,陈 军,等(4,79)
基于 OPC Server 的 PC 与 S7-300/400 的通信	张俊彪,王鸿辉,何长安(4,83)
数字化变电站通信网络规划与实时特性改进	李 强,窦晓波,吴在军,等(5,73)
改进的 FBD 法在电流实时检测中应用	康 静,郑建勇,饶 莹,等(5,77)
混沌免疫遗传算法在电力系统故障诊断中应用	孟祥萍,潘 莹,耿卫星,等(5,81)
粗糙集理论在火焰图像处理及状态识别中应用	武广富,吕震中(5,84)
数字化变电站的分布式联锁功能安全性研究	辛建波,上官帖(6,99)
全数字化保护系统的主要问题及解决方案	张沛超,高 翔,顾黄晶,等(6,104)
客运专线供电调度系统的构建	姜春林(6,108)
火电厂补给水处理系统中工业监控软件应用	冯德群,李 潼,王 晗(6,111)
变电站自动化网络通信系统仿真	沈宏涛,李瑞芳(6,114)
厂站监控系统中高可用数据库中间件的设计与实现	李纪云,蒋衍君,金文凯(6,118)
实现电站 DCS 开放性的 OPC 开发方案	陆会明,邓 慧,张智光(7,95)
全数字电力线载波机中基带调制的实现	惠 毅,周志杰,胡祥光,等(7,98)
基于 Matlab 的电力系统分析工具包 PSAT 及其有效性检验	常 勇,徐 政,王 超(7,102)
用 DSP 实现智能化自动重合闸	张建生(7,106)
利用 FPGA 实现 GPS 失步下精确守时	杨永标,杨晓渝,周 捷(7,109)
基于 OPC 的 Matlab 与组态王的数据通信	李安伏,崔亚量(7,113)
基于 GEN3-EMS 平台的应用功能开发及其应用	杜 杰,曹一家,陆金桂,等(8,73)
EMS 人机界面及其交互技术研究	朱全胜,刘 娆,李卫东(8,77)
基于多 Agent 的风力/太阳能互补发电能量管理系统	陈璟华,杨宜民,张伯泉(8,81)
电网污区图中智能化技术应用	姚 楠,王晓武(8,86)
高压直流输电系统安全性评价专家系统	刘 琳(8,89)
变频器在电厂渣浆泵中应用	骆 皓,朱卫风,钱诗宝,等(9,116)
DCS 在发电机组锅炉和汽轮机系统中应用	冯美英(9,120)
基于强化学习算法的自适应直流附加阻尼控制器	郭 力,张 尧,胡金磊(10,87)
配电系统元件的公共信息模型扩展	顾 强,王守相,李晓辉,等(10,91)
固态断路器技术的应用	冯 源,郭忠文(10,96)
基于 IEC60870-5-104 及 OPC 的水电厂自动化系统	郭谋发,杨耿杰,丁国兴,等(10,100)
组态软件在电力监控系统中应用	柯志敏,耿长青(10,104)

梯级水电站群优化调度控制研究及解决方案	邹建国,芮 钧,吴正义(10,107)
“AS-i 安全工作”技术机理及其工程应用	王永华,李 霞,曹雪华(11,60)
一种用于 GIS 局部放电信号在线监测的数据融合管理系统	唐 炬,廖 华,张晓星,等(11,63)
基于 C#.NET 的 IEC-61850 配置工具的设计和实现	窦晓波,陶洪平,胡敏强,等(11,67)
220 kV 变电站 GPS 时间同步系统实现技术	雷 霆,李 斌,黄太贵(11,71)
IEC60870-5 传输规约的应用及试验	杨 洪(11,75)
基于 Hypersim 的变电站自动化系统闭环测试环境的建立	杨洪涛,卜一凡,梁志成,等(11,79)
PSCAD/EMTDC 与 Matlab 接口研究	杨健维,麦瑞坤,何正友(11,83)
Matlab 在水轮机模型辨识中的应用	刘宪林,杜晓勇,田云峰,等(12,85)
基于 XML 的电能质量标准数据共享模型及跨平台数据交换	张 竞,肖先勇(12,88)
Zig-zag 变压器的建模与应用	周 鹏,郭忠文(12,93)

经验交流

EMS 中状态估计模块生产运行及实用化问题分析	刘 峰(4,118)
提高数字接口设备抗干扰性能的措施	曹更新,王 芊,余荣云,等(4,124)
牵引变压器差动保护误动原因分析及解决方案	林国松,李群湛(5,122)
接地方式对变电站自动化系统的影响	陆鸿禧(6,125)
超高压变电站监控系统	陈 萍,黄 冰,周晓阳(7,116)
新型变压器零序差动保护方案设计	罗小莉,赵安国,郭晓冬(7,119)
配电网消弧装置应用中相关问题的研讨	郑鹏鹏(8,115)
变电站程序化操作及运动装置执行	丁 泉,朱来强,胡道徐,等(8,119)
直流回路一点接地和交直流串扰引起保护误动及其对策	唐文秀(9,123)
关于绿色电力的电厂自动化控制	许立昌(10,111)
地区调度自动化系统双配置方案探讨	刘远龙(10,115)
高频保护通道的组成及其常见故障解决方法	何永波,余 年,朱志甫,等(11,111)
南方电网直流 100Hz 保护的改进措施	周红阳,余 江,黄佳胤,等(12,96)

综述

现代电力系统恢复控制研究综述	刘 强,石立宝,周 明,等(11,104)
----------------------	-----------------------

现场运行

一起低压电气设备事故分析	郑丙文(1,119)
电厂黑启动方案及其系统试验	严奉军,王 宁(1,122)
一起主变保护误动作事故的分析与处理	姬希军,黄生春,樊 平,等(1,125)
数字式自备投装置在水电厂的应用	陈 琼(2,124)
GIS 设备安装质量控制要点	白宇涛(3,124)
纵联零序方向保护误动原因分析及对策	汪 萍,陈久林(7,122)
苏州电网同杆双线并馈送终端变的继电保护配置和整定	潘 琪,吴 奕(7,126)
变电所电源的快速切换	徐雯霞,曹 良,倪 菁,等(8,122)
由线路跳闸引发的安全供电思考	卢 芳,袁晓峰,张先锋(10,119)
控制电缆的分布电容对继电保护的影响及防范措施	吴剑鸣,严 正(11,115)

装置介绍

电能计量装置介绍	王 毅(12,119)
----------------	-------------

Electric Power Automation Equipment

(Vol.27 No.1~No.12 2007)

Index

ACADEMIC DISSERTATION COLUMN OF UNIVERSITY ASSOCIATION OF ELECTRICAL ENGINEERING CHINA

- Simple loop topology analysis based on adaptive Petri net for directional protections in multi-loop electric power network
..... CAI Guo-wei,WANG Jian-yuan,PAN Chao,et al.(1,4)
- On connection of distributed energy generation to power system
..... ZHANG Bao-hui(12,35)

UHV TECHNOLOGY FORUM

- Developing UHV AC transmission and constructing strong state power grid DU Zhi-gang,NIU Lin,ZHAO Jian-guo(5,5)
- Applicable occasions of UHVAC/UHVDC transmission and their technology comparisons in China
..... ZHOU Hao,ZHONG Yi-jun(5,39)
- Recommendation of HVDC transmission/interconnection for every strengthened regional grids,avoiding countrywide 1 000 kV interconnection MENG Ding-zhong(5,22)
- On foundation of safe and reliable operation of national power system ZHANG Yu-ying(6,124)
- Economy and security analysis of AC UHV in China
..... WANG Zhong-hong(10,4)
- Calculation and characteristic analysis of surface voltage gradient for UHV transmission conductor bundle
..... NIU Lin,DU Zhi-gang,ZHAO Jian-guo(10,9)

ANALYSIS AND RESEARCH

- Insulation status estimation for high voltage electric equipment based on fuzzy neural network
..... SUN He-yi,PU Zhao-bang,ZHAO Xue-zeng(1,8)
- Loss study of HVDC system
..... LI Zhan-ying,REN Zhen,CHEN Yong-jin(1,9)
- Fault location method for distribution feeders based on transient high-frequency current detection
..... WANG Gang-jun,SHI Yan-kun,GUO Zhi-zhong(1,16)
- Research on LCL filter applied to shunt active power filter
..... WU Jian,XU Dian-guo,HE Na(1,35)
- Application of generalized interpolating wavelet in power quality disturbance signal analysis
..... YANG Jin,LI Geng-yin,ZHOU Ming,et al.(1,25)
- Three-level three-phase four-wire active power filter based on one-cycle control LEI Peng,ZHOU Lin,ZHOU Li,et al.(1,30)
- Application of adaptive immune PSO in dynamic reactive power optimization
..... SHEN Mao-ya,DING Xiao-qun,WANG Kuan,et al.(1,35)
- Research on compensative characteristics of active power filter
..... WU Fei,XIE Da,ZHANG Yan-chi(1,39)
- Single tuned filter based on controllable reactor
..... YU Ming-tao,CHEN Jian-ye,WANG Zan-ji(1,41)
- Simulation research on active power filter
... HUA Xiao-ping,WANG Ben,MENG Ling-ling,et al.(1,45)
- Research on software for graphic integrated fault analysis and relay protection test for district power grid
..... LI Yuan,CAI Ze-xiang,ZENG Wei-dong,et al.(1,52)
- Simulation of PWM control system based on S-Function
..... HAO Ji-fei,XING Qing-qing,ZHANG Lin(1,52)
- Error analysis and engineering calculation of current transformer

- ... CAO Tuan-jie,ZHANG Jian,YIN Xiang-gen,et al.(1,56)
- Robust controller of decentralized excitation for ship generator
..... ZHU Zhi-yu,LU Nan(1,60)
- Grounding fault line detection based on magnetic-flux controllable arc suppression coil using current injection technology
..... LI Jian-shan,CHEN Qiao-fu,ZHANG Yu,et al.(1,64)
- Construction of secure power data network and its application in Henan power data network
..... LUO Han-wu,LI Fang,ZHANG Dong(1,67)
- Test of magnetic valve controllable parallel reactor model
..... ZHAO Zhi-qiang,LI Zhong-xiang,ZHANG Xi-le(1,71)
- Research on measures to increase insertion loss of power line filter SUN Zhen,GENG Ke-qiang,YOU Jian,et al.(1,73)
- Parameter selection of protective current transformer for medium-voltage system
..... YUAN Ji-xiu,SHENG He-le,QIN Ying-li,et al.(2,15)
- Design of main protection configuration scheme for hydro-generator
... GUI Lin,WANG Xiang-heng,ZHANG Qun-gang,et al.(2,10)
- Double feed-forward control strategy for dynamic voltage restorer
..... SHI Wei-wei,TANG Guo-qing,LI Jun(2,15)
- Adjustment characteristics of thyristor controlled interphase power controller based on parameter coordination
..... LI Juan,ZHAO Lu,ZHANG Bing-bing,et al.(2,19)
- Analysis of over-investment in generation capacity based on game theory
..... WANG Yong-jun,WEN Fu-shuan,SUN Dong-chuan(2,23)
- Application of GA in PID parameter optimization in UPFC
..... WU Hong-bin,YANG Yi-song,DING Ming,et al.(2,27)
- Zero-sequence current automatic compensation of transformer differential protection based on negative-sequence current
..... WU Da-li,YIN Xiang-gen,ZHANG Zhe,et al.(2,31)
- Analysis and improvement of transformer protection criterion based on model HAN Zheng-qing,LIU Shu-ping(2,34)
- Protection principle of auto-compensator and harmonic shade converting transformer and its criteria setting
..... LUO Long-fu,LI Yong,XU Jia-zhu,et al.(2,38)
- Harmonic suppression and var compensation of industrial power distribution system
..... TANG Jie,LUO An,FAN Rui-xiang,et al.(2,43)
- Channel characteristics analysis and anti-jamming measures of low-voltage power line carrier communication
..... SUN Xiu-juan,LUO Yun-hu,LIU Zhi-hai,et al.(2,46)
- Application of extended Kalman filter in parameter identification of dynamic load model ZHONG Wei-jin,AI Qian(2,50)
- Wavelet fault detection based on filtering pretreatment
..... LIU Yi-hua,ZHAO Guang-zhou(2,55)
- Lightning over-voltage at ends of inlet cable in 110 kV GIS substation DING Chen,ZHENG Jian-yong,XIANG Ling(2,58)
- GPRS wireless internet based on ARM 7
..... LI An-fu,JI Xiu-li,ZHANG Ji-jun(2,61)
- Feedback current detection in vector control based on DSP controller
..... ZHAI Xiao-fei,ZHANG Jun-hong,ZHAO Jing-hong(2,65)
- Research on wide-area protection terminal device based on GPS
... YANG Shi-rong,WANG Shao-rong,CHENG Shi-jie(2,68)

- Simulation of back-to-back HVDC system with PSCAD/EMTDC
 ····· GAO Xiao-wang, ZHOU Yong, KANG Lu-yu (2, 74)
- Influence of single-phase re-close sequence on system transient stability ····· SHU Hong-chun, SUN Shi-yun, DONG Jun, et al. (3, 4)
- AC excitation control of multi-function flexible power conditioner
 ····· LI Gang, LIU Xiao-rui, WEN Jin-yu, et al. (3, 9)
- Regional electricity pricing mechanism based on price discrimination
 ····· WANG Yong-jun, WEN Fu-shuan, SUN Dong-chuan (3, 13)
- Harmonic characteristic analysis of serial controllable saturated reactor ····· MU Xian-min, WEI Xiao-xia, JI Yan-chao, et al. (3, 17)
- Design of ball pulverizer load control system based on T-S fuzzy model ····· LIU Rong, LÜ Zhen-zhong (3, 20)
- Study on stability of injection type hybrid active power filter
 ····· TANG Ci (3, 25)
- Study on optimal power flow with voltage stability constraints
 ····· HUANG Hai-lun, WEI Hua, YANG Yu-de (3, 29)
- Fast reactive current detection based on FBD for unbalanced system ····· FU Xiang-yun, WANG Jian-ze, JI Yan-chao (3, 37)
- Shunt circuit control strategy for HVDC rectifier terminal
 ····· WANG Pei-chang, ZHANG Jun-xing (3, 37)
- Data compression of power quality disturbance based on wavelet and neural network ····· ZHOU Hou-kui (3, 56)
- Reactive power optimization in large-scale power systems with discrete variables ····· SHI Wei, WEI Hua, BAI Xiao-qing (3, 45)
- Research on phase compensation of electronic transformer
 ····· YANG Jing, ZHOU You-qing, LIU Kun (3, 48)
- Calculating coverage of zero sequence current protection based on node impedance matrix
 ····· CAI Li, WANG Xing-hua, SHI Dong-yuan, et al. (3, 52)
- Transmission pricing considering cost composition and its allocation
 ····· LI Hui-jie, YAO Jian-gang (3, 56)
- Improvement research of PC phased rectifier-type charger
 ····· GONG Xiao-xin, HAO Wei-bing, YAN Xiang-wu, et al. (3, 60)
- Application of adaptive PID control based on single neuron in HVDC ····· ZHAO Jing, ZHANG Zhi-wen, XIAO Xiang (3, 111)
- Electricity market clearing algorithm considering congestion elimination based on block bidding model
 ····· LI Lin-chuan, GU Li-mei, ZHAO Sen-lin (4, 5)
- HVDC transmission system fault identification and locating algorithm using mathematical morphology
 ····· SHU Hong-chun, WANG Chao, ZHANG Jie, et al. (4, 18)
- Simulation research on influence of initial capacitor voltage value on CVT ferroresonance
 ····· YANG Yu-xia, MA Chao-hua, XU Min (4, 13)
- Control strategy and simulation research of Delta-conversion type UPS ····· LIU Wei-gang, SHEN Song-hua (4, 18)
- Faulty line detection based on wavelet packet analysis for distribution network
 ····· PANG Qing-le, SUN Tong-jing, SUN Bo, et al. (4, 22)
- Long-term multi-objective fuzzy optimization scheduling model of cascaded hydroelectric stations
 ····· HU Guo-qiang, HE Ren-mu (4, 27)
- Analysis of PMU performance in Windows system
 ····· LIU Bing-xu, ZHAO Jian-guo, GAO Hou-lei (4, 31)
- Instantaneous frequency tracking algorithm based on derivative ····· ZHANG Chao, TAN Jian-cheng (4, 34)
- Strategies to prevent faults of voltage and reactive power control equipment for 10 kV system
 ····· SU Wen-bo, SUN Shi-min, LIU Juan, et al. (4, 46)
- Discussion of relations between equal consumed energy increase ratio law & equal network loss increase ratio law and optimal power flow
 ····· WANG Zheng-feng, TANG Wei, WU Hao, et al. (4, 41)
- Short-circuit simulation and protection scheme of parallel running motors
 ····· LIU Zhi-cheng, YIN Xiang-gen, ZHANG Zhe, et al. (4, 46)
- Study of selfadaptive reclosing for parallel lines
 ····· ZHU Jian-hong, CHEN Fu-feng, WEI Yao, et al. (4, 51)
- Research on shield voltage compensation unit of power cable
 ····· JIANG Ning, WANG Dong-hai, WANG Chun-ning, et al. (4, 55)
- Novel nonlinear control scheme of UPFC
 ····· XI Ling-ling, AI Qian, CHEN Chen (4, 59)
- Implementation of power system stabilizer with double-fuzzy structure ····· MO Na, TIAN Jian-she (4, 63)
- Prony analysis of low frequency oscillation based on wavelet pretreatment technology
 ····· LIU Sen, ZHAO Shu-qiang, YU Zan-mei, et al. (4, 82)
- Fixed frequency sampling measurement based on frequency tracing ····· BU Guang-jin, DAI Jing, LI Ming, et al. (4, 70)
- Influence of DC control parameters on joint buses of AC/DC hybrid power systems ····· LIU Chong-ru, ZHANG Bo-ming (5, 27)
- Effect of synchronous machine damper windings and magnetic saturation on low-frequency oscillation damping
 ····· XU Ying-xin, WANG Xi-tian, YANG Fan, et al. (5, 35)
- Immune algorithm in rotating rectifier fault diagnosis of brushless generator ····· LIU Nian, XIE Chi, WANG Tao, et al. (5, 35)
- Operating conditions of fast transfer equipment of plant power supply system ····· HONG Pei-sun (5, 39)
- Short-term load forecast based on combination of wavelet transform and hybrid neural network
 ····· YIN Cheng-qun, KANG Li-feng, LI Li, et al. (5, 44)
- Comparison of UPFC performance between cross coupling and decoupling controls
 ····· CAI Song, DUAN Shan-xu, CAI Li (5, 49)
- Rapid and visual harmonic identification based on Chirplet transform ····· HU Guo-sheng, WANG Ying (5, 52)
- Advanced non-separable 2-dimensional discrete wavelet transform for data compression
 ····· ZHAO Yan-fen, YANG Hong-geng (5, 57)
- Influence of SVC on power system frequency stability
 ····· WU Qi, LIN Li, MU Dao-huai, et al. (5, 61)
- Influence of optical current transducer on line differential protection ····· GU Huang-jing, ZHANG Pei-chao (5, 64)
- Parameter optimization of excitation system based on constrained nonlinear programming
 ····· WANG Yang-zheng, JIANG Ping (5, 68)
- Study of impact of boiler's dynamic characteristics on dynamic frequency process in power system
 ····· SHI Xiang, LIU Hong-bo, XU Xing-wei, et al. (5, 72)
- Generalized eigen analysis of SSO based on structure-preserving LDAE model
 ····· LIU Hao-ming, YU Chang, NI Yi-xin (6, 7)
- Study on one-cycle control of DVR based on three-phase full-bridge inverter
 ····· LI Cheng, LIN Hong, YANG Hong-quan (6, 21)
- Calculation of node-to-node congestion price
 ····· ZHANG Rui-you, HAN Shui, ZHANG Jin-zhu, et al. (6, 16)
- Faulty feeder detection based on transient current and wavelet packet in distribution system
 ····· BI Yan-qiu, ZHAO Jian-guo (6, 21)
- Simulative analysis of substation ferroresonance and its suppression measures
 ····· SIMA Wen-xia, GUO Fei, YANG Qing, et al. (6, 26)
- DC resistance measurement for low voltage side winding of

- large-scale transformer
 ····· LIANG Zhi-rui,ZHEN Xu-feng,NIU Sheng-suo(6,31)
- Research on UHF Hilbert fractal antenna for online transformer PD monitoring
 ····· LI Jian,NING Jia-xin,JIN Zhuo-rui,et al.(6,35)
- Discussion on configuration optimization of wind power capacity
 ····· LI Feng-ting,CHAO Qin,TONG Fei,et al.(6,38)
- Reactive power generation management for improvement of voltage stability margin
 ····· SU Yong-chun,CHENG Shi-jie,WEN Jin-yu(6,42)
- Analysis of power generation enterprise bidding strategies considering demand-side bidding
 ··· SONG Hong-kun,TANG Yu-dong,TANG Guo-qing,et al.(6,47)
- Determination of pumped-storage plant capacity with peak-regulation proportion ····· CAO Fang,ZHANG Li-zi(6,50)
- Research of fault current limiter based on half-controlled rectifier bridge for three-phase four-wire power system
 ··· ZHANG Yan-li,FEI Wan-min,JIANG Ning-qiu,et al.(6,55)
- Protection scheme for double-line with same pole based on synchronized phasor measurement
 ····· CAI Guo-wei,ZHOU Guo-ping,LI Ling(6,59)
- Fast calculation of interpolated FFT algorithm using cubic spline function ····· SUN Tong-ming,XU Min,YANG Yu-xia(6,62)
- Effect analysis of reactive power control on transient angle stability ····· WANG Zheng-feng,WU Di(6,70)
- Intelligent sampling with parameter self-optimizing in power frequency measuring ····· PAN Wen-cheng(6,70)
- Distinguish between partial discharge and external interference signal for GIS on-line monitoring ····· LU Yi,YANG Jing(6,84)
- Differential resonator method for early fault visual detection of generator rotor system
 ····· LI Nan,ZHAO Dong-cheng,LI Hong-bo,et al.(6,107)
- Single-phase parallel active power filter
 ··· CHEN Yu-da,CHEN Qiao-fu,ZHANG Chang-zheng,et al.(6,80)
- Parameter identification of nonlinear excitation system based on improved genetic algorithm
 ····· ZHAO Shu-qiang,WANG Lei,MA Yan-feng,et al.(7,4)
- Electric load models described by spline function
 ····· ZHANG Jian,SHEN Feng,HE Ren-mu(7,8)
- BP learning algorithm for CNN generator modeling
 ····· SHI Wei-feng(7,13)
- Validity assessment of power system transient stability numerical simulation ··· ZHANG Heng-xu,ZHANG Ning,LIU Yu-tian(7,16)
- Single-phase low harmonics saturated controllable reactor
 ····· MU Xian-min,WANG Jian-ze,HU Tai,et al.(7,21)
- Design of fuzzy controller based on PLC for hydroelectric unit
 ··· HOU Shu-wen,HUANG Wei-feng,SONG Jian-na,et al.(7,24)
- Splitting and islanding of networked dispersed generators
 ····· DING Lei,PAN Zhen-cun,SU Yong-zhi,et al.(7,29)
- Simple method of predictive current control
 ····· GUO Zi-yong,ZHOU You-qing,GUO Li-min,et al.(7,32)
- Power system fault diagnosis based on Bayesian network
 ····· ZHU Yong-li,WANG Yan,GENG Lan-qin,et al.(7,37)
- Fingerprint similarity based analysis of generator partial discharge stability
 ··· QIAN Yong,HUANG Cheng-jun,HUANG Fang-neng,et al.(7,41)
- Control method for voltage source active power filters
 ····· ZHANG Xiu-ping,ZHONG Qi(7,45)
- APF current detection based on RLS adaptive algorithm
 ····· LI Ping,LIU Xiao-he(7,48)
- Leakage inductance calculation based on finite element method for power transformer and its application to winding deformation analysis ····· LI Peng,HAO Zhi-guo,ZHANG Bao-hui,et al.(7,53)
- Estimation of electrical signal frequency based on adaptive notch filter with variable step-size LMS algorithm
 ····· OU Li-quan,HUANG Chun,LIU Yun-chan(7,57)
- Research on power conversion technique in MW-level direct-driven wind turbine ··· XU Feng,WANG Hui,YANG Tao-yi(7,61)
- Voltage regulation based on allocation optimization of distributed generation and SVG ····· BAI Qian,LI Peng(7,65)
- Hybrid control of medium frequency inverter
 ····· DIAO Yuan-jun,ZOU Bin(7,69)
- ATC calculation based on modified transfer limits and AC distribution factors
 ··· SUN Rong-fu,SONG Yong-hua,ZHANG Chang-hua,et al.(8,10)
- Nonlinear mode analysis of multi- infeed AC/DC parallel system based on norm form theory ····· YANG Xiu,XU Guang-hu(8,10)
- Unbalanced three-phase power flow calculation for distributed power generation system
 ··· WANG Shou-xiang,HUANG Li-juan,WANG Cheng-shan,et al.(8,15)
- Design of time-of-use power price at generation side and optimal model of electricity distribution
 ··· WANG Mian-bin,TAN Zhong-fu,ZHANG Rong,et al.(8,21)
- Study on dynamic performance of one-cycle controlled three-phase PWM rectifier
 ····· LEI Tao,ZHANG Xiao-bin,LIN Hui,et al.(8,25)
- Mid- & long-term load forecast based on GRNN
 ····· YAO Li-xiao,LIU Xue-qin,WU Li,et al.(8,29)
- Optimization model of interchange contract parameters
 ····· WANG Jian-bin,KANG Yong,TAN Zhong-fu(8,33)
- Commutation failure analysis of HVDC systems using Hypersim
 ····· LIN Ling-xue,ZHANG Yao,ZHONG Qing,et al.(8,37)
- Nonlinear robust excitation control strategy with voltage regulation
 ····· WANG Xi-huai,ZHENG Tian-fu,XIAO Jian-mei(8,42)
- Simulation of internal fault of three-phase five-leg transformer
 ····· HAO Wen-bin,LI Qun-zhan(8,47)
- Study on adaptive impedance relay with zero sequence voltage phase shifting and polarization
 ····· YANG Lan,YANG Ting-fang,QU Gui-yin,et al.(8,50)
- Influence of MOA-based FCL on power system transient stability
 ····· LIU Hong-shun,LI Qing-min,XU Liang,et al.(8,54)
- PWM pulse generation for matrix converter
 ····· MA Xing-he,TAN Guo-jun,ZHANG Xiao,et al.(8,57)
- Reactive compensation principle and simulation of FACTS device in wind farm ····· JIN Jing,AI Qian,ZHAO Yan(8,61)
- Research on time-delay compensation strategy for Internet-based remote control system ····· LI Hong-yan(8,65)
- Optimal design of high order multi-band-pass FIR digital filter
 ····· LI Si,AN Wei-ke(8,69)
- Stable current control of switching power supply
 ····· CAI Zi-liang,FANG Bo(8,72)
- Grid-based PFR dynamic modeling and its simulation
 ····· DU Liang,LIU Jun-yong,XIAO Lan,et al.(9,62)
- Reactive power optimization using second mutation genetic algorithm ····· KANG Ji-tao,QIAN Qing-quan(9,11)
- Subsynchronous damping controller design using Prony identification
 ····· WU Ling-yun,LI Xing-yuan,YANG Yu,et al.(9,17)
- Accident forewarning system based on RCTL
 ····· ZHANG Wei,PAN Zhen-cun,SHU An-jie(9,21)
- Study of EFT/B generated in primary circuit and its countermeasures ··· WANG Yu-feng,ZOU Ji-yan,LIAO Min-fu(9,27)
- Individual phase control of D-STATCOM under unbalanced compensation ··· WANG Jian-ze,FU Xiang-yun,JI Yan-chao(9,30)

- Study on closed-loop simulation of transformer differential protection based on Matlab LIU Qiang, CAI Ze-xiang(9,35)
- Memory algorithm of wave chart state in fault record analysis software GUI Xun, YAO Lan, QIAN Qing-quan(9,39)
- Improved high precision interpolating FFT for harmonic analysis ... HUANG Fang-neng, HUANG Cheng-jun, CHEN Chen, et al.(9,43)
- Current transformer saturation criterion based on virtual impedance model ZHAO Yong-bin, LU Yu-ping(9,47)
- Power transformer fault diagnosis based on least square support vector machine XIAO Yan-cai, ZHU Heng-jun(9,51)
- Magnetizing inrush identification based on differential current characteristics HAN Zheng-qing, LIU Shu-ping(9,54)
- Fast detection algorithm based on curve fitting algorithm for current power device
..... LIU Bing, RUAN Jiang-jun, LUO Xiang, et al.(9,82)
- Selective leakage protection based on correlation between high-frequency transient components
..... WANG Qing-liang, LIU Jun-liang(9,62)
- Fault locating algorithm for T-type lines with parallel transmission lines on same pole at three sides
..... TIAN Yu, FAN Chun-ju, GONG Zhen-dong(9,66)
- Analysis of multi-carrier PWM methods for single-phase five-level inverter HOU Shi-ying, WAN Jiang, ZHENG Han-bo(9,70)
- Study on optimal maintenance cycle of digital relay based on reliability analysis
... LI Hong-ning, ZHANG Yong-jun, WU Guo-pei, et al.(9,87)
- Parameter identification of process model based on PSO
..... XU Zhi-cheng(9,78)
- Over-voltage suppression of shift-phase rectification transformer
..... CHEN Xiang-ling, HUANG Xi-you(9,82)
- Research and application of high capacity static var system for transmission path of electric power system
..... WANG Ping, HE Yuan-sen, QIU Yu-feng, et al.(10,18)
- Constructing db/V complex wavelets for PD signal denoise
... TANG Ju, WAN Ling-yun, ZHANG Xiao-xing, et al.(10,37)
- Parameter coordination optimization of wide-area damping controller based on trust region
..... LI Hong-jun, LU Chao, HU Xiao-guang(10,29)
- Optimal bifurcation control to improve small-signal stability of power systems GU Wei, JIANG Ping, TANG Guo-qing(10,33)
- Zero-sequence component imposed three-level vector control system of induction machine
..... WANG Ming-yu, LI Yu-jun, LIU Shu-xi, et al.(10,37)
- Evaluation of operating stability of magneto-optical current transformer LU Zhong-feng, GUO Zhi-zhong(10,43)
- Advanced high side voltage control improves voltage stability
..... ZHAO Xing-yong, ZHANG Xiu-bin(10,46)
- A joint auction of energy and transmission rights based on AC sensitivity HUA Ke, XIE Kai, GUO Zhi-zhong(10,50)
- Synthesized hysteretic control of injection-type hybrid APF
..... TANG Jie, LUO An, TANG Ci, et al.(10,55)
- Commutation failure of capacitor commutated inverter
..... XIANG Ling, HU Min-qiang, ZHENG Jian-yong(10,63)
- Research on recovery inrush in operating transformer
..... LI Li-xin, SHU Hong-chun(10,63)
- Simulative study on hybrid control of shunt active power filter
..... LI Gang, SHEN Chen, ZHOU Qian-zhi(10,68)
- Modeling and simulation of variable-speed wind generator system with large capacity
..... SUN Guo-xia, LI Xiao-cong, CAI Yi-ming(10,73)
- Mechanism of DC capacitor voltage control of 6-pulse VSI-based SSSC DING Guan-jun, DING Ming, TANG Guang-fu(11,7)
- Dynamic simulation of distance protection based on real equipment
..... LIU Qiang, CAI Ze-xiang, ZHAN Shao-wei, et al.(11,41)
- Optimal bifurcation control to improve large-disturbance stability of power systems ... GU Wei, JIANG Ping, TANG Guo-qing(11,17)
- Faulty line detection based on incremental impedance theory
..... ZHU Ke, XU Wen-yuan(11,54)
- Control strategies of dynamic voltage restorer
..... CAI Lin-hai, JING Ping, WU Shou-yuan, et al.(11,25)
- Neural network short-term spot price forecast based on multi-factor wavelet analysis SU Juan, DU Song-huai, LI Cai-hua(11,33)
- Comparison of harmonic detection in three-phase four-wire system between $p-q-r$ method and FBD method
... CHEN Juan, ZHENG Jian-yong, DING Zu-jun, et al.(11,33)
- Voltage flicker detection based on independent component analysis LIU Yang, YANG Hong-geng(11,37)
- Research on high motor soft starter based on variable reactor
... YUAN You-xin, WANG Ya-lan, PENG Wan-quan, et al.(11,41)
- Fixed-point square root algorithm for microprocessor-based protection and monitoring devices
..... YAO Bin, CHEN Yu-tao, LI Jing-zheng(11,45)
- Varying-domain self-organizing fuzzy PID control in AC inverter
..... HUANG Dong-mei, CHENG Shu-kang, LI Jun(11,47)
- Application of fuzzy-RBF-based PID controller in superheated steam temperature control system
... WANG Wan-zhao, ZHAO Xing-tao, SONG Yan-ping(11,50)
- Theoretical line loss calculation with three-phase unbalance degree for low-voltage distribution network
..... GUO Feng, YAO Li-na, LIU Heng, et al.(11,54)
- Research of DC feeder protection based on bilateral power supply system LI Jian-min(11,59)
- Research of STATCOM based on multi-winding-transformer-isolated converter ... LIU Hai-bo, MAO Cheng-xiong, LU Ji-ming, et al.(12,9)
- Market value evaluation of multi-period interruptible load contracts
... WANG Jian-xue, WANG Xi-fan, ZHANG Xian, et al.(12,13)
- Survey on HVDC system modeling
..... MAO Xiao-ming, ZHANG Yao, ZHANG Yan(12,17)
- Post-contingency power system bifurcation point tracing based on optimization method GU Wei, JIANG Ping, XU Qi(12,20)
- Study of injection-type hybrid active power filter
..... TANG Ci, LUO An, LI Jian-qi, et al.(12,21)
- Rule-plus-exception model of knowledge extraction for fault diagnosis of turbine-generator unit
... HUANG Wen-tao, WANG Wei-jie, ZHAO Xue-zeng, et al.(12,31)
- Chromatographic column separation equation of gases dissolved in transformer oil
..... ZHOU Li-jun, WU Guang-ning, WANG Yun-fei(12,35)
- Power frequency measurement algorithm
... FANG Cun-yang, CHEN Yu-lan, PAN Han-guang(12,39)
- Simulative analysis of zero modal transient characteristics for single-phase grounding fault
... ZHANG Xin-hui, XUE Yong-duan, PAN Zhen-cun, et al.(12,43)
- Synthetic evaluation of power quality based on extenics
... DING Li, JIA Xiu-fang, ZHAO Cheng-yong, et al.(12,52)
- Faulty line selection based on variable reactance
..... HE Run-hua, PAN Jing, HUO Chun-yan(12,52)
- Improved FMEA method for reliability evaluation of mid-voltage distribution system based on divided feeder equivalence
..... REN Qian, ZHANG Yong-jun, REN Zhen, et al.(12,57)
- Comprehensive comparative analysis of SVC and STATCOM
..... ZHOU Jian-feng, GU Ya-qin, WEI Shou-qi(12,60)

DESIGN AND DEVELOPMENT

- Development of flexible-setting-list management system of relay protection
..... XIE Jun,SHI Dong-yuan,ZHANG De-quan,et al.(1,77)
- Grounding resistance meter based on SPCE 061A
..... LIU Zheng-ping,LIU Hao-ming(1,83)
- Design of Boost power factor corrector based on UC3854
..... ZHANG Hou-sheng(1,83)
- Application of ping-pong operation in incremental time-grating signal processing circuit
... WANG Yan-gang,PENG Dong-lin,YI Wen-cui,et al.(1,87)
- Design of ARM and Ethernet based vibration signal collector
..... PENG Guo-sheng(1,89)
- Fault diagnosis and performance supervision of condenser based on fuzzy neural network
... TENG Pi-zhong,ZHANG Pin,CHEN Rong-sheng,et al.(1,92)
- Multi-computer communication based on Modbus RTU in power quality monitoring system
..... LI Juan,ZHANG Bo,QIU Dong-yuan(1,96)
- Design of integrative experimental device for microcomputer protection based on DSP
... WANG Hong-tao,ZHOU You-qing,PENG Hong-hai(1,100)
- Design of distribution transformer monitoring terminal based on DSP and GR47 wireless module
... XIA Xiao-ling,ZHENG Qiong-hua,SHEN Yu-ming(1,103)
- Lightning-proof and grounding techniques for subway main control system
..... ZHAO Jing,HE Zheng-you,QIAN Qing-quan(1,107)
- Automatic reactive power compensator in distribution system
..... ZHONG Qing,ZHANG Yao,RUI Dong-yang(2,74)
- Application of optical fiber communication in relay protection
..... LI Zheng-feng,YANG Shu-nian,YU Dao-yuan,et al.(2,79)
- Digital protection platform based on IEC 61850
..... XU Ke,WU Zai-jun,MIN Tao,et al.(2,84)
- UML-based software design for logic unit of stability control system
..... DUN Dun,LI Zhe,QIN Hong-xia,et al.(2,89)
- Development of relay protective action simulation software
..... LIU Yun,CHEN Jin-fu,YANG Xiong-ping,et al.(2,93)
- Semiconductor isolated switching power supply with high power factor
..... TAO Qian,LIU Kai-pei,WANG Yu-min(2,96)
- On-line over-voltage monitoring system based on virtual instrument
..... LIU Bin,REN Li,XU Xing-hua,et al.(2,100)
- Negative sequence protection in comprehensive protection of LV flameproof motor
..... FENG Kai,CHEN Ying-song,HU Tao(2,103)
- Application of anti-interference techniques to on-line partial discharge monitoring of power transformer
..... WANG Tao,HUANG Yue-hua,HE Jing-liang,et al.(2,107)
- Operation order generation system with self-check function for distribution network
..... DING Peng,ZHANG Yan,HOU Feng-ling,et al.(2,110)
- Application of IEC 60870-5-103 transmission protocol in measuring-control device for middle and low voltage microprocessor-based protection
..... YAN Tian-jun,MEI Hui-nan,WU Zai-jun(2,113)
- Automatic bus transfer equipment under safety and stability control system
... PAN Shu-yan,LÜ Liang-jun,ZHOU Hong-tao,et al.(2,117)
- SMBus used in C8051F064 mixed signal MCU
..... ZHANG Yu,LU Bin,LI Jun(2,127)
- Development of capacitive current measuring instrument based on frequency scanning method for power distribution system
... YAN Gan-gui,LI Guo-xue,ZHANG Zheng-mao,et al.(3,68)
- Multi-channel sampling and measuring system based on ISP device
..... WANG Su-zhen,CHI Zong-tao,XU Ke-bao(3,72)
- Microprocessor excitation regulator based on ARM and VxWorks
..... XU Ke,DOU Xiao-bo,HU Min-qiang,et al.(3,76)
- Design and implementation of embedded Web server for LonWorks
..... WANG Yang,HUANG Tian-shu(3,85)
- Real-time multitask software design of communication server based on VxWorks
... YANG Xiao-jing,HU Min-qiang,WU Zai-jun,et al.(3,85)
- Design of converting controller of HVDC-Light simulation lab based on CPLD and DSP
..... SONG Xiao-quan,SUN Ling-sheng(3,88)
- Design of hand-held power harmonic analyzer based on LabVIEW DSP module
... XIE Bo,WEI Zhi-nong,CHEN Bin(3,93)
- Design of time-division charge meter based on AT89S 8253
..... XIA Xi-long,LU Jian-kang(3,95)
- Design of active DC filter for high magnetic field device
..... WANG Wei-li,LIU Xiao-ning,WANG Lei(3,98)
- Unattended substation system based on SMS of GSM
..... YAN Yun-zhong,YUE Qing-song,YOU Jian-jun(3,101)
- Design of information management and inquisition system for cascading hydropower stations in local network
..... LUO Yun-xia,WU Jian-ling,ZHOU Mu-xun,et al.(4,90)
- Design of power quality monitoring system based on FPGA
... NIU Bo,WANG Jian-hua,SONG Zheng-xiang,et al.(4,95)
- Integrated automation system based on field bus for coal mine power supply
... DENG Xian-ming,YANG Yu,FANG Rong-hui(4,98)
- Research and development of asset management system for power plants
..... TANG Bo,MENG Sui-min,WANG Gang(4,103)
- Design of programmable sampling system in fault line selection device for small current grounding system
..... SHI Ji-yin,LI Xin-ran,LI Zhi-jun,et al.(4,106)
- Online real-time transmission cost calculation system based on point meter database
..... LI Hui-jie,YAO Jian-gang,GU Lin-feng,et al.(4,111)
- Intelligent protection simulation system for local power network
... QIAN Jun,FENG Lin-qiao,ZHANG Wen-tao,et al.(4,114)
- Expanding outer interrupt requests of PIC16F 877 single chip with priority encoder 74LS 148
..... LIU Zi-xu,CHEN Jin-hui,YAO Zhen-jing(4,117)
- Circuit design of IPM and its application in APF
..... YUAN Tao,ZHENG Jian-yong,ZENG Wei,et al.(5,91)
- Study on control system of three-phase bridge type current limiter with magnetic bias
..... DOU Hui-ming,CAI Xu,JIN Zhi-jian(5,95)
- Development of dispatch anti-misoperation system
..... ZHU Xing-ke,BAI Biao(5,100)
- Improved single-phase power factor corrector
..... ZHANG Hou-sheng(5,105)
- Robust TCSC controller design based on linear matrix inequality for multi-machine power system
..... YANG Yang,ZHANG Jian-cheng(5,109)
- High frequency signal sampling device based on DSP,CPLD and SCM
..... YAN Zhi-qiang,WANG Yu,REN Kai-chun,et al.(5,113)
- Integrated fault line selection device for small current grounding network
..... CHEN Zhong-ren,LI Wei-bo,WU Wei-ning(5,117)
- Digital bus protection based on optical current transducer
..... TANG Zhi-guo,XU Guo-bin,ZHANG Fa-jin(5,121)

Design of Ethernet network server for intelligent electrical apparatus	..... GUI Xun,QING Song ,FENG Han,et al.(10,83)
..... NIU Bo,SONG Zheng-xiang,WANG Jian-hua,et al.(6,84)	
Design of AT91RM9200-based power frequency electrical parameter meter	..... PEI Wei,DENG Wei,KONG Li,et al.(10,86)
..... GUAN Jian,LIU Lin-shan(6,89)	
Design and implementation of single-phase high power factor rectifier controlled by IR1150	..... ZHANG Hou-sheng(6,95)
..... HAN Ying-jiang,YUAN Ying(6,98)	
Development of AT89C55WD-based experimental device of microcomputer protection	..... HAN Ying-jiang,YUAN Ying(6,98)
..... HAN Ying-jiang,YUAN Ying(6,98)	
Design of high-precision field test equipment for power meter	..... MAO Xiao-bo,HUANG Yun-feng,HUANG Jun-jie(7,73)
..... MAO Xiao-bo,HUANG Yun-feng,HUANG Jun-jie(7,73)	
Parameter design and engineering application of injection-type hybrid active power filter	..... TANG Ci(7,79)
..... TANG Ci(7,79)	
Faulty line selection equipment based on dual-CPU system	..... MA Shan-shan,ZHANG Fan,PAN Zhen-cun,et al.(7,83)
..... MA Shan-shan,ZHANG Fan,PAN Zhen-cun,et al.(7,83)	
A/D conversion using AT 90S1200	..... ZHANG Xin-hai,ZHANG Rui-bin(7,86)
..... ZHANG Xin-hai,ZHANG Rui-bin(7,86)	
Data communication based on USB interface of TMS320VC5509 DSP	..... LENG Hua,LI Xin-ran,LI Zhi-jun,et al.(7,105)
..... LENG Hua,LI Xin-ran,LI Zhi-jun,et al.(7,105)	
Resistivity meter of power cable semiconductor shields	..... WANG Jin-cheng,HU Yan(7,112)
..... WANG Jin-cheng,HU Yan(7,112)	
Design and simulation of single-phase active power factor correction circuit	..... JIANG Long-hao,LI Yan(7,115)
..... JIANG Long-hao,LI Yan(7,115)	
Research on intelligent integrated driving technique of medium- & low-voltage DSTATCOM	..... TANG Jie,LUO An,XIA Xiang-yang,et al.(8,94)
..... TANG Jie,LUO An,XIA Xiang-yang,et al.(8,94)	
Soft-switching APFC circuit based on Matlab	..... REN Kai-chun,YAN Zhi-qiang,WANG Yong-min(8,98)
..... REN Kai-chun,YAN Zhi-qiang,WANG Yong-min(8,98)	
Application of embedding technology in networking of serial -port devices	..... XI Bo,FANG Yan-jun(8,105)
..... XI Bo,FANG Yan-jun(8,105)	
Design of generator automatic quasi-synchronizing device based on microprocessor and CPLD	..... ZHANG Xiao-ying,DANG Cun-lu,WANG Shu-dong(8,105)
..... ZHANG Xiao-ying,DANG Cun-lu,WANG Shu-dong(8,105)	
Portable data sampling and analysis equipment based on DSP and embedded system	..... LIU Dong-liang,JIAO Yan-jun,ZHANG Xin-guo(8,109)
..... LIU Dong-liang,JIAO Yan-jun,ZHANG Xin-guo(8,109)	
Design and implementation of 220 kV centralized control substation	..... XIA You-bin,KAI Sheng-wu,HU Jin-shuang(8,112)
..... XIA You-bin,KAI Sheng-wu,HU Jin-shuang(8,112)	
Adaptor between Ethernet and serial ports based on uC/OS and LwIP	..... LONG Hai-nan,LIANG Zhao-bo(8,114)
..... LONG Hai-nan,LIANG Zhao-bo(8,114)	
Improvement of LC output filter and its optimization in STATCOM	..... RONG Fei,LUO An,PAN Hong-bin,et al.(9,87)
..... RONG Fei,LUO An,PAN Hong-bin,et al.(9,87)	
Design and implementation of simulation system for microcomputer -based distance protection	..... ZOU Gui-bin,GAO Hou-lei,JIANG Shi-fang(9,90)
..... ZOU Gui-bin,GAO Hou-lei,JIANG Shi-fang(9,90)	
Development of control and protection device for HV GIS	..... CHEN Xiao-ming,MIAO Shi-hong,CHEN Hong-cai,et al.(9,94)
..... CHEN Xiao-ming,MIAO Shi-hong,CHEN Hong-cai,et al.(9,94)	
Development of microcomputer protection device for large transformer	..... BAO Kai-peng,ZHANG Zhe,YIN Xiang-gen,et al.(9,99)
..... BAO Kai-peng,ZHANG Zhe,YIN Xiang-gen,et al.(9,99)	
Design of video signal acquisition system based on CPLD and SDRAM	..... CAO Xin-li,JIANG Fei,ZHU Ye(9,103)
..... CAO Xin-li,JIANG Fei,ZHU Ye(9,103)	
Design of IED based on IEC61850 standard for distribution system line protection	..... XU Bin,LIU Zi-ying(9,106)
..... XU Bin,LIU Zi-ying(9,106)	
Line protection based on DSP	..... BAO Ya-ping,LI Xiao-hong(9,109)
..... BAO Ya-ping,LI Xiao-hong(9,109)	
LCD terminal design based on singlechip	..... CHEN Xiang-cheng,GENG Chang-qing(9,112)
..... CHEN Xiang-cheng,GENG Chang-qing(9,112)	
Design of decision-making software for transformer economic operation	..... YANG Wei,PAN Wen-xia,FAN Yong-wei,et al.(9,115)
..... YANG Wei,PAN Wen-xia,FAN Yong-wei,et al.(9,115)	
Measurement instrument based on embedded system for grounding grid	..... FANG Yan-jun,XI Bo(10,76)
..... FANG Yan-jun,XI Bo(10,76)	
Development of flexible fault analysis software system	
Design and implementation of embedded power load management system under distributed generation	
..... PEI Wei,DENG Wei,KONG Li,et al.(10,86)	
Arc-suppression coil for decentralized compensation	..... TANG Yi,CHEN Qing(11,90)
..... TANG Yi,CHEN Qing(11,90)	
CPLD-based continuous flexible var compensator for low-voltage system	..... SUN Hong-guo,HU Guo-wen(11,94)
..... SUN Hong-guo,HU Guo-wen(11,94)	
Realization of electricity stealing prevention in distribution transformer monitoring system	..... LI Tao,DU Xiao-ping,LIU Huan-guang(11,121)
..... LI Tao,DU Xiao-ping,LIU Huan-guang(11,121)	
Design of three-phase imbalance degree tester	..... SHAO Ru-ping,HAN Zheng-wei,LIN Jin-guo(11,101)
..... SHAO Ru-ping,HAN Zheng-wei,LIN Jin-guo(11,101)	
Design of HV reactive compensation and harmonic suppression equipment	..... LI Xiao-gang,CHENG Yong,CUI Ran(11,103)
..... LI Xiao-gang,CHENG Yong,CUI Ran(11,103)	
Automatic tuning arc-suppression system based on DSP and PWM inverter	..... CHENG Lu,CHEN Qiao-fu,ZHANG Yu(12,64)
..... CHENG Lu,CHEN Qiao-fu,ZHANG Yu(12,64)	
Dual-DSP digital controller of magnetic suspending switched reluctance motor	..... ZHAO Nan,GE Bao-ming(12,69)
..... ZHAO Nan,GE Bao-ming(12,69)	
Design of UPFC supervisory control system based on DSP	..... CAO Yu-sheng,CHEN Yun-ping(12,80)
..... CAO Yu-sheng,CHEN Yun-ping(12,80)	
Design and implementation of TCSC dynamic simulation system	..... YAO Wei,YANG Yi,SUN Hai-shun,et al.(12,80)
..... YAO Wei,YANG Yi,SUN Hai-shun,et al.(12,80)	
Frequency-domain analysis and design of electronic ballasts for electrodeless lamp	..... LI Ying,LUO Yi(12,84)
..... LI Ying,LUO Yi(12,84)	
EXPERIENCE AND DISCUSSION	
Discussion on communication technology of power plant ECS	..... QI Jian-zhong(1,111)
..... QI Jian-zhong(1,111)	
Solutions of substation general fault signal	..... ZHU Jun(1,114)
..... ZHU Jun(1,114)	
Detection methods for dynamic voltage quality	..... LUO Xiao-li,YANG Yu(1,118)
..... LUO Xiao-li,YANG Yu(1,118)	
Realization and application of PLC function in microprocessor -based protection	..... XIE Zhi-xun,XU Li-bao(2,123)
..... XIE Zhi-xun,XU Li-bao(2,123)	
DISCUSSION AND APPLICATION	
Applications of multi-Agent technology in protection system	..... WANG Hui-fang,HE Ben-teng,SHI Hong-yu(3,106)
..... WANG Hui-fang,HE Ben-teng,SHI Hong-yu(3,106)	
New development in wide-area monitoring system	..... FENG Yuan,XIA Li(3,111)
..... FENG Yuan,XIA Li(3,111)	
Profibus-DP technology in subway PSCADA system	..... LI Xiao-jiang,HE Zheng-you,WANG Zhi-qiang,et al.(3,115)
..... LI Xiao-jiang,HE Zheng-you,WANG Zhi-qiang,et al.(3,115)	
Distributed memory database in substation automation system	..... ZHONG Yun,ZHAN Cheng-guo(3,119)
..... ZHONG Yun,ZHAN Cheng-guo(3,119)	
Application of XML Schema in substation IED configuration	..... FAN Chen,CHEN Xiao-chuan(3,123)
..... FAN Chen,CHEN Xiao-chuan(3,123)	
Application of Simulink in circuit analysis	..... WANG Qun,GENG Yun-ling(4,75)
..... WANG Qun,GENG Yun-ling(4,75)	
Application and development of shunt reactors in EHV & UHV transmission lines	..... ZHANG Li,XU Yu-qin(4,78)
..... ZHANG Li,XU Yu-qin(4,78)	
Ethernet 103 protocol and its application in hydraulic power plant SCADA system	..... DENG Su-bi,ZHAO Zhen-long,CHEN Jun,et al.(4,82)
..... DENG Su-bi,ZHAO Zhen-long,CHEN Jun,et al.(4,82)	
Communication between S7-300/400 and OPC Server-based PC	..... ZHANG Jun-biao,WANG Hong-hui,HE Chang-an(4,86)
..... ZHANG Jun-biao,WANG Hong-hui,HE Chang-an(4,86)	
Communication network of digital substation and improvement of real-time performance	..... LI Qiang,DOU Xiao-bo,WU Zai-jun,et al.(5,77)
..... LI Qiang,DOU Xiao-bo,WU Zai-jun,et al.(5,77)	
Application of improved FBD method in real-time current detection	..... KANG Jing,ZHENG Jian-yong,RAO Ying,et al.(5,80)
..... KANG Jing,ZHENG Jian-yong,RAO Ying,et al.(5,80)	
Chaos immune genetic algorithm in power system fault diagnosis	..... MENG Xiang-ping,PAN Ying,GENG Wei-xing,et al.(5,100)
..... MENG Xiang-ping,PAN Ying,GENG Wei-xing,et al.(5,100)	
Application of rough sets theory in flame image processing and state recognition	..... WU Guang-fu,LÜ Zhen-zhong(5,121)
..... WU Guang-fu,LÜ Zhen-zhong(5,121)	

Safety of distributed interlock function in digital substation	XIN Jian-bo, SHANGGUAN Tie(6,103)	.....	LEI Ting, LI Bin, HUANG Tai-gui(11,74)
Main issues of all-digital protection system and solutions ... ZHANG Pei-chao, GAO Xiang, GU Huang-jing, et al.(6,107)		Application and test of IEC60870-5 transmission protocol	YANG Hong(11,78)
Construction of power supply dispatch system for passenger dedicated line	JIANG Chun-lin(6,110)	Hypersim-based closed-loop test environment for substation automation system ... YANG Hong-tao, BU Yi-fan, LIANG Zhi-cheng, et al.(11,82)	
Application of monitoring and control software in makeup water treatment system of thermal power plant	FENG De-qun, LI Tong, WANG Han(6,113)	Interface between PSCAD/EMTDC and Matlab	YANG Jian-wei, MAI Rui-kun, HE Zheng-you(11,87)
Simulative research on substation automation network communication system	SHEN Hong-tao, LI Rui-fang(6,117)	Application of Matlab in hydroturbine model identification ... LIU Xian-lin, DU Xiao-yong, TIAN Yun-feng, et al.(12,92)	
Design and realization of high-availability database middleware for substation supervisory control system	LI Ji-yun, JIANG Yan-jun, JIN Wen-kai(6,121)	XML-based power quality data sharing model and cross-platform data exchange	ZHANG Jing, XIAO Xian-yong(12,92)
OPC scheme to realize openness of power plant DCS	LU Hui-ming, DENG Hui, ZHANG Zhi-guang(7,97)	Modeling and application of Zig-zag transformer	ZHOU Peng, GUO Zhong-wen(12,95)
Implementation of baseband modulation in DPLC	HUI Yi, ZHOU Zhi-jie, HU Xiang-guang, et al.(7,101)	EXPERIENCE COMMUNICATION	
Matlab-based power system analysis toolbox and its validity check	CHANG Yong, XU Zheng, WANG Chao(7,105)	Operation and practicability of state estimation module in EMS	LIU Feng(4,126)
Implementation of intelligent auto-reclosing with DSP	ZHANG Jian-sheng(7,108)	Measures to improve anti-jamming performance of digital interface devices ... CAO Geng-xin, WANG Qian, YU Rong-yun, et al.(4,126)	
Realize accurate timing with FPGA during GPS synch failure	YANG Yong-biao, YANG Xiao-yu, ZHOU Jie(7,112)	Analysis of traction transformer differential protection misoperation and its solution	LIN Guo-song, LI Qun-zhan(5,125)
OPC-based data communication between Matlab and KingView	LI An-fu, CUI Ya-liang(7,115)	Effect of grounding modes on substation automation system	LU Hong-xi(6,127)
Function development on GEN3-EMS platform and its application	DU Jie, CAO Yi-jia, LU Jin-gui, et al.(8,76)	Supervision and control system for extra-high voltage substation	CHEN Ping, HUANG Bing, ZHOU Xiao-yang(7,118)
HCI and interaction technologies of EMS	ZHU Quan-sheng, LIU Rao, LI Wei-dong(8,81)	Scheme design of transformer zero-sequence differential protection	LUO Xiao-li, ZHAO An-guo, GUO Xiao-dong(7,121)
Energy management system of hybrid power generation field based on multi-agent system	CHEN Jing-hua, YANG Yi-min, ZHANG Bo-quan(8,85)	On arc suppression device applications in distribution network	ZHENG Peng-peng(8,118)
Application of intelligent technologies in pollution area in power grid	YAO Nan, WANG Xiao-wu(8,88)	Programmed operations of substation and execution by telecontrol device	DING Quan, ZHU Lai-qiang, HU Dao-xu, et al.(8,121)
Safety evaluation expert system for HVDC transmission system	LIU Lin(8,98)	Protection misoperations caused by single-point grounding of DC circuit and AC-DC interference and countermeasures	TANG Wen-xiu(9,125)
Application of inverter in ash-water pump of power plant	LUO Hao, ZHU Wei-feng, QIAN Shi-bao, et al.(9,119)	Discussions on dual-configuration of areal dispatch automation system	LIU Yuan-long(10,118)
Application of DCS to power plant boiler and steam turbine control	FENG Mei-ying(9,122)	Influence of control cable distributing capacitance on protection and its countermeasures	WU Jian-ming, YAN Zheng(11,121)
Adaptive HVDC supplementary damping controller based on reinforcement learning ... GUO Li, ZHANG Yao, HU Jin-lei(10,91)		Improvement measures of 100 Hz protection in China Southern Power Grid ... ZHOU Hong-yang, YU Jiang, HUANG Jia-yin, et al.(12,100)	
CIM extension to distribution system components	GU Qiang, WANG Shou-xiang, LI Xiao-hui, et al.(10,95)	SUMMARY AND SURVEY	
Applications of solid state circuit breaker	FENG Yuan, GUO Zhong-wen(10,99)	Survey of power system restoration control	LIU Qiang, SHI Li-bao, ZHOU Ming, et al.(11,114)
Hydropower plant automation system based on IEC 60870-5-104 and OPC ... GUO Mou-fa, YANG Geng-jie, DING Guo-xing, et al.(10,103)		SITE OPERATION	
Research and solution of optimal dispatch control of cascaded hydropower stations	ZOU Jian-guo, RUI Jun, WU Zheng-yi(10,111)	Analysis of a low-voltage electrical accident	ZHENG Bing-wen(1,121)
AS-i safety at work technology and its application	WANG Yong-hua, LI Xia, CAO Xue-hua(11,94)	Power plant black-start scheme and its experiment	YAN Feng-jun, WANG Ning(1,125)
Data fusion management system for GIS PD online monitoring	TANG Ju, LIAO Hua, ZHANG Xiao-xing, et al.(11,67)	Analysis and disposal of primary transformer protection misoperation	JI Xi-jun, HUANG Sheng-chun, FAN Ping, et al.(1,127)
Design and realization of IEC-61850 configuration tool based on C#.NET ... DOU Xiao-bo, TAO Hong-ping, HU Min-qiang, et al.(11,70)		Application of digital automatic bus transfer equipment in hydraulic power plant	CHEN Qiong(2,127)
Implementation of GPS synchronization system in 220 kV substation		Quality control point in GIS installation	BAI Yu-tao(3,126)
		Analysis of longitudinal zero sequence direction protection misoperation and its countermeasures	WANG Ping, CHEN Jiu-lin(7,125)
		Fast transfer of substation power supply	XU Wen-xia, CAO Liang, NI Jing, et al.(8,124)