

CHAPTER 52
TECHNOLOGY
ELECTRICAL ENGINEERING

Doctoral Theses

452. CHANDNA (Vinay Kumar)
Design, Configuration and Implementation of Intelligent Scada System.
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Abstract

It investigates intelligent system based on microprocessors and computers, Supervisory Control and Data Acquisition (SCADA) system for online monitoring and control of modern large-scale power systems, thereby overcome the complexities and drawbacks of the conventional instrumentation schemes in generation, transmission and distribution. SCADA system are an integral part of power system operations. It communicates with the operator on real time basis about the health of the power system and analyzes the performance. The SCADA system is a real time on-line monitoring and control system, which provides coordinated operations for selected functions.

Contents

1. Introduction. 2. Literature review. 3. Design of SCADA system. 4. Design and testing of RTU. 5. Design of operator friendly control centre. 6. Fuzzy logic technique for pre-processing data. 7. Fuzzy genetic technique for pre-processing data. 8. Conclusions. References.