



This book describes the arrangement, mode of action and problems of:

- **secondary power supplies of digital protective relays;**
- **stationary accumulator batteries;**
- **battery chargers;**
- **uninterruptible power supplies (UPS);**
- **auxiliary AC and DC power supply systems of substation and power plants.**

The book also reviews the issues of:

- **insulation monitoring in DC systems;**
- **the problems of monitoring the continuity of substation battery circuit;**
- **problems of voltage dips and how to address them;**
- **as well as a number of other questions that arise in the course of the exploitation of auxiliary power systems and the onsite needs of substations and power plants.**

### **ORDERING:**

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In addition, the book provides detailed descriptions of transistors, thyristors, optocouplers and relays and their principles of operation in order to facilitate understanding for power engineering specialists who work with the electronic equipment listed above, but are not specialists in the field of electronics.

**The book is meant for engineers and technicians who use AC and DC auxiliary power systems of power plants and substations, as well as relay protection systems.**

The book may be useful **for teachers and students** of corresponding disciplines at vocational schools and higher education institutions

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