In-depth and systemic examination of distribution automation with specific focus on fault location and service restoration

- Focuses on the detailed and systemic examination of fault location and service restoration in distribution grid

- Arms the readers with a complete picture of what fault location and service restoration is from both theoretical and practical perspectives

- Presents the authors' research on fault location and restoration for distribution systems since 1995

- Introduces the first-hand application experience obtained from over 30 DAS (Distribution Automation System) projects in China

- Examines the protection approaches of electrical distribution networks automation and on relevant mechanisms associated to electrical supply restoration after (local) blackouts

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**ABOUT THE AUTHOR**

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Professor Liu received his Ph.D. in Electrical Engineering from Xi'an University of Technology, Xi'an, China. After graduation, he worked as an engineer at the Northwest Electric Power Corporation, as senior engineer at the Shaanxi Electric Power Corporation and Chief Engineer at the Shaanxi Electric Power Research Institute, respectively. Professor Liu started his research on distribution system and its automation in 1995. He established China's first urban Distribution Automation System (DAS) in Yinchuan Province. He published the paper 'The uniformed matrix algorithm of fault location for distribution systems' which was the country's first paper on fault location for distribution systems. He has published over 100 papers on modelling, analysis, planning, fault location, service restoration, network reconfiguration, feeder automation and self-healing for distribution systems. As the head of the DAS Testing Group of the State Grid Corporation of China, Prof. Liu established the DAS testing laboratory and has developed sets of simulation and testing equipment, and he has led and or supervised the testing work of over 80 DAS projects in China. He supervises all of the DAS standards of State Grid Corporation. Due to his contributions to electric power engineering, Prof. Liu has been awarded the national and provincial level of science and technology prizes on twelve occasions. He is a Senior Member of IEEE.

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