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for digital Instrumentation -- Development and application of new products and technologies for nuclear safety instrumentation -- Operation and management of instrumentation and control system in nuclear power plant -- Demonstration of instrumentation and control system in nuclear power plant -- Other relevant content.

Sommario/riassunto

This book is the 1st volume of proceedings of the 1st Smart Nuclear Power Technology Forum and the 8th China Nuclear Power Plant Digital Technology and Application Seminar held in Shenzhen, China in June 2024. This seminar aims to explore the software and hardware of digital and instrument control (I&C) systems in nuclear power plants, such as inspection, testing, certification and research of sensors, actuators and control systems, and the application of electrical and intelligent operation and maintenance technologies. It aims to provide a platform for experts, scholars and nuclear power practitioners to exchange technology and share experience. At the same time, it also provides a platform for the combination of universities and enterprises in the aspects of production, education and research, and promotes the safe development of nuclear power plants. In addition, readers will encounter new ideas to achieve more efficient and safer instruments and control systems.