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This book collects papers from the 9th China Nuclear Power Plant Digital Technology and Application Seminar held in Ningbo, China in September 2025. 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.
