

1. Record Nr.	UNINA9910373950503321
Titolo	Nuclear Power Plants: Innovative Technologies for Instrumentation and Control Systems [[electronic resource]] : The Fourth International Symposium on Software Reliability, Industrial Safety, Cyber Security and Physical Protection of Nuclear Power Plant (ISNPP) // edited by Yang Xu, Yongbin Sun, Yanyang Liu, Yanjun Wang, Pengfei Gu, Zheming Liu
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2020
ISBN	981-15-1876-9
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XIII, 571 p. 306 illus., 154 illus. in color.)
Collana	Lecture Notes in Electrical Engineering, , 1876-1100 ; ; 595
Disciplina	621.4835
Soggetti	Physical measurements Measurement Nuclear energy Quality control Reliability Industrial safety Computer security Radiation protection Radiation—Safety measures Measurement Science and Instrumentation Nuclear Energy Quality Control, Reliability, Safety and Risk Systems and Data Security Effects of Radiation/Radiation Protection
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Test and research on electromagnetic compatibility of nuclear power plant -- Development and application of digital control system for nuclear power -- Validation & Verification of control system software 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 presents a compilation of selected papers from the Fourth International Symposium on Software Reliability, Industrial Safety, Cyber Security and Physical Protection of Nuclear Power Plant, held in August 2019 in Guiyang, China. The purpose of the symposium was to discuss inspection, testing, certification and research concerning the software and hardware of instrument and control (I&C) systems used at nuclear power plants (NPP), such as sensors, actuators and control systems. The event provides a venue for exchange among experts, scholars and nuclear power practitioners, as well as a platform for the combination of teaching and research at universities and enterprises to promote the safe development of nuclear power plants. Readers will find a wealth of valuable insights into achieving safer and more efficient instrumentation and control systems.
