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ISBN	1-119-48367-0
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Descrizione fisica	1 online resource (259 pages)
Disciplina	621,483
Soggetti	Nuclear power plants - Electric equipment
00990	Nuclear power plants - Power supply
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Elements of a power system Nuclear power plants, general information Special regulations and requirements Unique
	requirements : class 1E power system Nuclear plants containment
	electrical penetration assemblies On-site emergency AC source
	nuclear plant with the grid Station blackout (SBO) - insues and
	regulations Review of electric power calculations Plant life :
	equipment aging, life extension, and decommissioning Electrical and
Sommaria/riassunta	Covers all aspects of electrical systems for nuclear power plants written
Sommano/nassuno	by an authority in the field Based on author Omar Mazzoni's notes for a
	graduate level course he taught in Electrical Engineering, this book
	discusses all aspects of electrical systems for nuclear power plants,
	It covers such important topics as the requirements for equipment
	qualification, acceptance testing, periodic surveillance, and operational
	issues. It also provides excellent guidance for students in
	industry standards that are applicable, and the Nuclear Regulatory

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Commission' rules for designing and operating nuclear plants.' Electrical Systems for Nuclear Power Plants offers in-depth chapters covering: elements of a power system; special regulations and requirements; unique requirements of a Class 1E power system; nuclear plants containment electrical penetration assemblies; on-site emergency AC sources; on-site emergency DC sources; protective relaying; interface of the nuclear plant with the grid; station blackout (SBO) issues and regulations; review of electric power calculations; equipment aging and decommissioning; and electrical and control systems inspections. This valuable resource: -Evaluates industry standards and their relationship to federal regulations -Discusses Class 1E equipment, emergency generation, the single failure criterion, plant life, and plant inspection -Includes exercise problems for each chapter Electrical Systems for Nuclear Power Plants is an ideal text for instructors and students in electrical power courses, as well as for engineers active in operating nuclear power plants.