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Nota di contenuto	Protection of Electrical Networks; Table of Contents; Chapter 1. Network Structures; 1.1. General structure of the private distribution network; 1.2. The supply source; 1.3. HV consumer substations; 1.4. MV power supply; 1.4.1. Different MV service connections; 1.4.2. MV consumer substations; 1.5. MV networks inside the site; 1.5.1. MV switchboard power supply modes; 1.5.2. MV network structures; 1.6. LV networks inside the site; 1.6.1. LV switchboard supply modes; 1.6.2. LV switchboards backed up by generators; 1.6.3. LV switchboards backed up by an uninterruptible power supply (UPS) 1.7. Industrial networks with internal generation1.8. Examples of standard networks; Chapter 2. Earthing Systems; 2.1. Earthing systems at low voltage; 2.1.1. Different earthing systems - definition and arrangements; 2.1.2. Comparison of different earthing systems in low voltage; 2.1.2.1. Unearthed or impedance-earthed neutral (IT system); 2.1.2.2. Directly earthed neutral (TT system); 2.1.2.3. Connecting the exposed conductive parts to the neutral (TNC - TNS systems); 2.2. Medium voltage earthing systems; 2.2.1. Different earthing systems - definition and arrangements 2.2.2. Comparison of different medium voltage earthing systems2.

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Sommario/riassunto

This book, designed for engineers, technicians, designers and operators working with electrical networks, contains theoretical and practical information on the design and set-up of protection systems. Protection of Electrical Networks first discusses network structures and grounding systems together with problems that can occur in networks. It goes on to cover current and voltage transformers, protection functions, circuit breakers and fuses. Practical explanations of how protection systems function are given, and these, together with tables of settings, make this book suitable for any r
