1. Record Nr. UNINA9910135152603321

Titolo	IEEE Std C37.114-2014 (Revision of IEEE Std C37.114-2004) - Redline : IEEE guide for determining fault location on AC transmission and distribution lines - redline / / IEEE
Pubbl/distr/stampa	[Place of publication not identified] : , : IEEE, , 2015
ISBN	1-5044-0129-8
Descrizione fisica	1 online resource
Disciplina	621.31921
Soggetti	Electric fault location Nonlinear waves
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Electrical faults on transmission and distribution lines are detected and isolated by system protective devices. Once the fault has been cleared, outage times can be reduced if the location of the fault can be determined more quickly. The techniques and application considerations for determining the location of a fault on ac transmission and distribution lines are outlined in this guide. Traditional approaches and the primary measurement techniques used in modern devices are reviewed: one- and two-terminal impedance-based methods and traveling-wave methods. Application considerations include: two- and three-terminal lines, series-compensated lines, parallel lines, untransposed lines, underground cables, fault resistance effects, and other power system conditions, including those unique to distribution systems.