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| 1. Record Nr. | UNISA996281039603316 |
| 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 | <p>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.</p> |