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| Autore                  | Grainger Brandon  |
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| Edizione                | [1st ed.]   |
| Descrizione fisica      | 1 online resource (424 pages)   |
| Collana                 | Energy Engineering  |
| Altri autori (Persone)  | De DonckerRik W   |
| Disciplina              | 621.3   |
| Soggetti                | Electric power distribution - Direct current  |
| Lingua di pubblicazione | Inglese   |
| Formato                 | Materiale a stampa  |
| Livello bibliografico   | Monografia  |
| Nota di contenuto       | Chapter 1: Medium voltage DC technologies - key enabler for a flexible, multi-terminal underlay distribution gridChapter 2: Power electronic converters impacts on MVDC system architecturesChapter 3: Restructuring the existing medium voltage distribution grids using DC systemsChapter 4: Bidirectional isolated DC-DC converters - enabling technology for MVDC networks with distributed generationChapter 5: Multiport DC power converters for MVDC applicationsChapter 6: Modern control and mode visualization of bidirectional DC/DC convertersChapter 7: Medium frequency and medium voltage transformer technology for DC-DC converter applicationsChapter 8: MVDC stability: modeling, analysis, and enhancement approachesChapter 9: Overview of protection technologies in MVDC systemChapter 10: DC marine vessel electric system design with case studiesChapter 11: Conclusions. |
| Sommario/riassunto      | A concise and hands-on overview of medium voltage direct current (MVDC) technology for electric power grids, written by international experts with broad experience. The book covers fundamentals, converters, transformers and control for both stationary and mobile applications.  |