

1. Record Nr.	UNINA9910143720303321
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Titolo	Instantaneous power theory and applications to power conditioning // Hirofumi Akagi, Edson Hirokazu Watanabe, Mauricio Aredes
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley, , c2007
ISBN	1-280-90105-5 9786610901050 0-470-11893-8 1-60119-501-X 0-470-11892-X
Descrizione fisica	1 online resource (395 p.)
Collana	IEEE Press series on power engineering ; ; 31
Altri autori (Persone)	WatanabeEdson Hirokazu <1952-> AredesMauricio <1961->
Disciplina	621.31
Soggetti	Electric filters, Active Power electronics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
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#### Sommario/riassunto

This book presents a deep review of various power theories and shows how the instantaneous active and reactive power theory provides an important basic knowledge for understanding and designing active filters for power conditioning. The only book of its kind, it also demonstrates how the instantaneous active and reactive power theory can be used for combined shunt-series filters and in Flexible AC Transmission Systems (FACTS).