



Design and Control of Hybrid Active Power Filters (SpringerBriefs in Electrical and Computer Engineering)

By Chi-Seng Lam, Man-Chung Wong

[Download now](#)

[Read Online](#) 

Design and Control of Hybrid Active Power Filters (SpringerBriefs in Electrical and Computer Engineering) By Chi-Seng Lam, Man-Chung Wong

Design and Control of Hybrid Active Power Filters presents an overview of the current quality problems and their compensators. To get a balance between the system cost and performance, hybrid active power filters (HAPFs) are valuable. The book presents the coverage of resonance phenomena prevention capability, filtering performance and system robustness analysis of HAPF; nonlinear inverter current slope characteristics and their linear operation region requirement analysis of the hysteresis PWM for the HAPF; minimum inverter capacity design procedure of HAPF, adaptive dc-link voltage controller for the HAPF and the real design example of a 220V 10kVA HAPF, in which the system performance analysis method, minimum dc voltage deduction concept and adaptive dc voltage idea can be further extended into the other active compensators, such as APF, static synchronous compensator STATCOM, etc. This book will benefit researchers, graduate students, and electrical power engineers in the field of power-quality compensation.

Dr. Chi-Seng Lam and **Dr. Man-Chung Wong** are both from the University of Macau, Macao, China.

 [Download Design and Control of Hybrid Active Power Filters ...pdf](#)

 [Read Online Design and Control of Hybrid Active Power Filter ...pdf](#)

Design and Control of Hybrid Active Power Filters (SpringerBriefs in Electrical and Computer Engineering)

By Chi-Seng Lam, Man-Chung Wong

Design and Control of Hybrid Active Power Filters (SpringerBriefs in Electrical and Computer Engineering) By Chi-Seng Lam, Man-Chung Wong

Design and Control of Hybrid Active Power Filters presents an overview of the current quality problems and their compensators. To get a balance between the system cost and performance, hybrid active power filters (HAPFs) are valuable. The book presents the coverage of resonance phenomena prevention capability, filtering performance and system robustness analysis of HAPF; nonlinear inverter current slope characteristics and their linear operation region requirement analysis of the hysteresis PWM for the HAPF; minimum inverter capacity design procedure of HAPF, adaptive dc-link voltage controller for the HAPF and the real design example of a 220V 10kVA HAPF, in which the system performance analysis method, minimum dc voltage deduction concept and adaptive dc voltage idea can be further extended into the other active compensators, such as APF, static synchronous compensator STATCOM, etc. This book will benefit researchers, graduate students, and electrical power engineers in the field of power-quality compensation.

Dr. Chi-Seng Lam and Dr. Man-Chung Wong are both from the University of Macau, Macao, China.

Design and Control of Hybrid Active Power Filters (SpringerBriefs in Electrical and Computer Engineering) By Chi-Seng Lam, Man-Chung Wong Bibliography

- Sales Rank: #5343154 in Books
- Published on: 2013-01-31
- Released on: 2013-01-31
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x .42" w x 6.10" l, .0 pounds
- Binding: Paperback
- 158 pages



[Download Design and Control of Hybrid Active Power Filters ...pdf](#)



[Read Online Design and Control of Hybrid Active Power Filter ...pdf](#)

Download and Read Free Online Design and Control of Hybrid Active Power Filters (SpringerBriefs in Electrical and Computer Engineering) By Chi-Seng Lam, Man-Chung Wong

Editorial Review

Users Review

From reader reviews:

Ronald Ralph:

In this 21st one hundred year, people become competitive in every single way. By being competitive right now, people have do something to make these people survives, being in the middle of often the crowded place and notice by means of surrounding. One thing that often many people have underestimated the item for a while is reading. That's why, by reading a publication your ability to survive raise then having chance to stay than other is high. In your case who want to start reading the book, we give you this kind of Design and Control of Hybrid Active Power Filters (SpringerBriefs in Electrical and Computer Engineering) book as beginner and daily reading book. Why, because this book is usually more than just a book.

David Manning:

The actual book Design and Control of Hybrid Active Power Filters (SpringerBriefs in Electrical and Computer Engineering) has a lot of information on it. So when you check out this book you can get a lot of help. The book was compiled by the very famous author. Tom makes some research just before write this book. This kind of book very easy to read you may get the point easily after reading this book.

Lynnette Jennings:

Are you kind of occupied person, only have 10 or maybe 15 minute in your day time to upgrading your mind proficiency or thinking skill actually analytical thinking? Then you have problem with the book than can satisfy your short space of time to read it because all of this time you only find reserve that need more time to be go through. Design and Control of Hybrid Active Power Filters (SpringerBriefs in Electrical and Computer Engineering) can be your answer as it can be read by an individual who have those short extra time problems.

Ruby Martinez:

In this era globalization it is important to someone to find information. The information will make a professional understand the condition of the world. The condition of the world makes the information easier to share. You can find a lot of sources to get information example: internet, magazine, book, and soon. You can see that now, a lot of publisher which print many kinds of book. The particular book that recommended to your account is Design and Control of Hybrid Active Power Filters (SpringerBriefs in Electrical and Computer Engineering) this guide consist a lot of the information with the condition of this world now. This kind of book was represented how does the world has grown up. The dialect styles that writer require to

explain it is easy to understand. Often the writer made some study when he makes this book. Honestly, that is why this book suited all of you.

**Download and Read Online Design and Control of Hybrid Active Power Filters (SpringerBriefs in Electrical and Computer Engineering) By Chi-Seng Lam, Man-Chung Wong
#QV9F7AEPCU0**

Read Design and Control of Hybrid Active Power Filters (SpringerBriefs in Electrical and Computer Engineering) By Chi-Seng Lam, Man-Chung Wong for online ebook

Design and Control of Hybrid Active Power Filters (SpringerBriefs in Electrical and Computer Engineering) By Chi-Seng Lam, Man-Chung Wong Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Design and Control of Hybrid Active Power Filters (SpringerBriefs in Electrical and Computer Engineering) By Chi-Seng Lam, Man-Chung Wong books to read online.

Online Design and Control of Hybrid Active Power Filters (SpringerBriefs in Electrical and Computer Engineering) By Chi-Seng Lam, Man-Chung Wong ebook PDF download

Design and Control of Hybrid Active Power Filters (SpringerBriefs in Electrical and Computer Engineering) By Chi-Seng Lam, Man-Chung Wong Doc

Design and Control of Hybrid Active Power Filters (SpringerBriefs in Electrical and Computer Engineering) By Chi-Seng Lam, Man-Chung Wong MobiPocket

Design and Control of Hybrid Active Power Filters (SpringerBriefs in Electrical and Computer Engineering) By Chi-Seng Lam, Man-Chung Wong EPub