



# 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](#)

## **Editorial Review**

### **Users Review**

#### **From reader reviews:**

##### **Jane Garner:**

A lot of people always spent their very own free time to vacation or even go to the outside with them friends and family or their friend. Do you know? Many a lot of people spent these people free time just watching TV, or maybe playing video games all day long. If you would like try to find a new activity this is look different you can read a new book. It is really fun for you. If you enjoy the book that you just read you can spent the whole day to reading a reserve. The book Design and Control of Hybrid Active Power Filters (SpringerBriefs in Electrical and Computer Engineering) it doesn't matter what good to read. There are a lot of those who recommended this book. These were enjoying reading this book. Should you did not have enough space to create this book you can buy typically the e-book. You can m0ore simply to read this book through your smart phone. The price is not very costly but this book possesses high quality.

##### **Margaret Bonner:**

Reading can called imagination hangout, why? Because when you find yourself reading a book specially book entitled Design and Control of Hybrid Active Power Filters (SpringerBriefs in Electrical and Computer Engineering) your head will drift away trough every dimension, wandering in each aspect that maybe unknown for but surely can become your mind friends. Imaging every word written in a e-book then become one web form conclusion and explanation which maybe you never get just before. The Design and Control of Hybrid Active Power Filters (SpringerBriefs in Electrical and Computer Engineering) giving you another experience more than blown away your thoughts but also giving you useful details for your better life with this era. So now let us explain to you the relaxing pattern here is your body and mind will be pleased when you are finished reading it, like winning a. Do you want to try this extraordinary shelling out spare time activity?

##### **Ella Oxley:**

Are you kind of occupied person, only have 10 or even 15 minute in your moment to upgrading your mind talent or thinking skill possibly analytical thinking? Then you are receiving problem with the book when compared with can satisfy your short period of time to read it because this time you only find e-book 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 because it can be read by a person who have those short time problems.

**Denise Wallis:**

Within this era which is the greater man or who has ability in doing something more are more important than other. Do you want to become among it? It is just simple solution to have that. What you are related is just spending your time little but quite enough to enjoy a look at some books. One of many books in the top record in your reading list is actually Design and Control of Hybrid Active Power Filters (SpringerBriefs in Electrical and Computer Engineering). This book that is certainly qualified as The Hungry Hillside can get you closer in turning out to be precious person. By looking way up and review this book you can get many advantages.

**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  
#XD9GSMJ0KP2**

# **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 download, 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**

**XD9GSMJ0KP2: Design and Control of Hybrid Active Power Filters (SpringerBriefs in Electrical and Computer Engineering) By Chi-Seng Lam, Man-Chung Wong**