



The Theory and Design of Cycloconverters (Monographs in Modern Electrical Technology)

By William McMurray

Download now

Read Online →

The Theory and Design of Cycloconverters (Monographs in Modern Electrical Technology) By William McMurray

This is the first definitive treatment of an analytically complex type of electric power converter (cycloconverter) operating between ac sources and loads, where the output frequency can be independently controlled from the input frequency.

Currently, there is much interest in applying cycloconverters to the special control of ac motors and to aircraft electrical systems; however, progress has been limited by lack of good technical information. This book provides an immeasurable service in that the author's theory is sufficiently detailed to allow accurate performance evaluation, design calculations, and cost projections. Moreover, he has culled an extensive, coherent bibliography from the scattered literature in the field.

A cycloconverter of the naturally commutated type is essentially a pair of phase-controlled rectifiers connected in inverse parallel. Modulation of these converters to provide ac power at a lower frequency than the source frequency greatly complicates the analysis of their behavior. McMurray treats various effects of the modulation in theoretical detail and shows how the resulting equations can be used for accurate performance and design calculations. His analysis of the cycloconverter is based on the classical equations of a phase-controlled rectifier operating with continuous load current. The general algebraic form of the equations, which are applicable to many different circuit configurations, is retained throughout the book. It also presents in tabular and graphical form the results of numerical integration of corresponding rectifier equations, required in calculating many cycloconverter performance factors.

This is the fourth monograph in the series Modern Electrical Technology, edited by Alexander Kusko.

↓ [Download The Theory and Design of Cycloconverters \(Monograp ...pdf](#)

 [Read Online The Theory and Design of Cycloconverters \(Monogr ...pdf](#)

The Theory and Design of Cycloconverters (Monographs in Modern Electrical Technology)

By William McMurray

The Theory and Design of Cycloconverters (Monographs in Modern Electrical Technology) By William McMurray

This is the first definitive treatment of an analytically complex type of electric power converter (cycloconverter) operating between ac sources and loads, where the output frequency can be independently controlled from the input frequency.

Currently, there is much interest in applying cycloconverters to the special control of ac motors and to aircraft electrical systems; however, progress has been limited by lack of good technical information. This book provides an immeasurable service in that the author's theory is sufficiently detailed to allow accurate performance evaluation, design calculations, and cost projections. Moreover, he has culled an extensive, coherent bibliography from the scattered literature in the field.

A cycloconverter of the naturally commutated type is essentially a pair of phase-controlled rectifiers connected in inverse parallel. Modulation of these converters to provide ac power at a lower frequency than the source frequency greatly complicates the analysis of their behavior. McMurray treats various effects of the modulation in theoretical detail and shows how the resulting equations can be used for accurate performance and design calculations. His analysis of the cycloconverter is based on the classical equations of a phase-controlled rectifier operating with continuous load current. The general algebraic form of the equations, which are applicable to many different circuit configurations, is retained throughout the book. It also presents in tabular and graphical form the results of numerical integration of corresponding rectifier equations, required in calculating many cycloconverter performance factors.

This is the fourth monograph in the series Modern Electrical Technology, edited by Alexander Kusko.

The Theory and Design of Cycloconverters (Monographs in Modern Electrical Technology) By William McMurray Bibliography

- Sales Rank: #9242896 in Books
- Published on: 1972-06-15
- Original language: English
- Number of items: 1
- Dimensions: 9.00" h x 1.00" w x 6.00" l,
- Binding: Hardcover
- 144 pages

 [Download The Theory and Design of Cycloconverters \(Monograp ...pdf](#)

 [Read Online The Theory and Design of Cycloconverters \(Monogr ...pdf](#)

Download and Read Free Online The Theory and Design of Cycloconverters (Monographs in Modern Electrical Technology) By William McMurray

Editorial Review

Users Review

From reader reviews:

April Robles:

Why don't make it to become your habit? Right now, try to prepare your time to do the important action, like looking for your favorite reserve and reading a e-book. Beside you can solve your long lasting problem; you can add your knowledge by the reserve entitled The Theory and Design of Cycloconverters (Monographs in Modern Electrical Technology). Try to the actual book The Theory and Design of Cycloconverters (Monographs in Modern Electrical Technology) as your close friend. It means that it can being your friend when you really feel alone and beside those of course make you smarter than ever before. Yeah, it is very fortunated in your case. The book makes you much more confidence because you can know everything by the book. So , we need to make new experience as well as knowledge with this book.

Ned Aguayo:

Throughout other case, little folks like to read book The Theory and Design of Cycloconverters (Monographs in Modern Electrical Technology). You can choose the best book if you like reading a book. As long as we know about how is important some sort of book The Theory and Design of Cycloconverters (Monographs in Modern Electrical Technology). You can add know-how and of course you can around the world by just a book. Absolutely right, due to the fact from book you can recognize everything! From your country till foreign or abroad you may be known. About simple factor until wonderful thing it is possible to know that. In this era, we are able to open a book or maybe searching by internet product. It is called e-book. You need to use it when you feel uninterested to go to the library. Let's read.

Douglas Quintanar:

Information is provisions for people to get better life, information currently can get by anyone from everywhere. The information can be a understanding or any news even a huge concern. What people must be consider while those information which is from the former life are hard to be find than now is taking seriously which one is acceptable to believe or which one typically the resource are convinced. If you receive the unstable resource then you buy it as your main information you will have huge disadvantage for you. All those possibilities will not happen within you if you take The Theory and Design of Cycloconverters (Monographs in Modern Electrical Technology) as the daily resource information.

Rodolfo Odum:

Spent a free time and energy to be fun activity to accomplish! A lot of people spent their leisure time with

their family, or their very own friends. Usually they performing activity like watching television, about to beach, or picnic inside the park. They actually doing same thing every week. Do you feel it? Will you something different to fill your own free time/ holiday? Could possibly be reading a book is usually option to fill your totally free time/ holiday. The first thing that you'll ask may be what kinds of guide that you should read. If you want to try look for book, may be the publication untitled The Theory and Design of Cycloconverters (Monographs in Modern Electrical Technology) can be excellent book to read. May be it may be best activity to you.

**Download and Read Online The Theory and Design of
Cycloconverters (Monographs in Modern Electrical Technology) By
William McMurray #L3XIVE97WT8**

Read The Theory and Design of Cycloconverters (Monographs in Modern Electrical Technology) By William McMurray for online ebook

The Theory and Design of Cycloconverters (Monographs in Modern Electrical Technology) By William McMurray 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 The Theory and Design of Cycloconverters (Monographs in Modern Electrical Technology) By William McMurray books to read online.

Online The Theory and Design of Cycloconverters (Monographs in Modern Electrical Technology) By William McMurray ebook PDF download

The Theory and Design of Cycloconverters (Monographs in Modern Electrical Technology) By William McMurray Doc

The Theory and Design of Cycloconverters (Monographs in Modern Electrical Technology) By William McMurray Mobipocket

The Theory and Design of Cycloconverters (Monographs in Modern Electrical Technology) By William McMurray EPub