

# Power Electronics Applied to Industrial Systems and Transports Volume: A Comprehensive Guide to the Fundamentals, Applications, and Future Prospects

Power electronics is a rapidly growing field that is playing an increasingly important role in industrial systems and transports. In particular, power electronics is used to convert, regulate, and control the flow of electricity. This has enabled the development of new and more efficient systems, such as electric vehicles, renewable energy sources, and industrial automation.



## Power Electronics Applied to Industrial Systems and Transports, Volume 3: Switching Power Supplies

by Maurice Oxenburgh

★★★★★ 5 out of 5

Language : English  
File size : 7336 KB  
Text-to-Speech : Enabled  
Enhanced typesetting : Enabled  
Hardcover : 208 pages  
Item Weight : 1.24 pounds  
Dimensions : 7.24 x 0.7 x 10.3 inches  
Screen Reader : Supported  
Print length : 166 pages



This book provides a comprehensive overview of power electronics applied to industrial systems and transports. It includes the fundamentals of power

electronics, as well as the latest advancements in the field. The book covers a wide range of topics, including:

\* AC and DC power systems \* Power converters \* Power quality \* Renewable energy sources \* Electric vehicles

The book is written by a team of experts in power electronics, and it is intended for a broad audience, including students, researchers, engineers, and practitioners.

### **Fundamentals of Power Electronics**

The first part of the book covers the fundamentals of power electronics. This includes topics such as:

\* Semiconductor devices \* Power circuits \* Magnetic circuits \* Control techniques

This section of the book provides a solid foundation for understanding the more advanced topics that are covered in the latter parts of the book.

### **Applications of Power Electronics**

The second part of the book covers the applications of power electronics in industrial systems and transports. This includes topics such as:

\* Power supplies \* Motor drives \* Renewable energy sources \* Electric vehicles

This section of the book provides a detailed overview of the various applications of power electronics, and it also discusses the advantages and

disadvantages of each application.

## Future Prospects of Power Electronics

The third part of the book covers the future prospects of power electronics. This includes topics such as:

\* Wide bandgap semiconductors \* GaN and SiC devices \* Power electronics for smart grids

This section of the book provides a glimpse into the future of power electronics, and it discusses the new technologies that are likely to be developed in the coming years.

This book is a comprehensive overview of power electronics applied to industrial systems and transports. It includes the fundamentals of power electronics, as well as the latest advancements in the field. The book covers a wide range of topics, and it is written by a team of experts in power electronics. The book is intended for a broad audience, including students, researchers, engineers, and practitioners.



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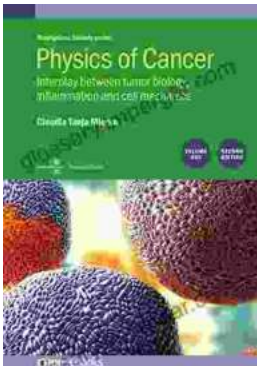
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