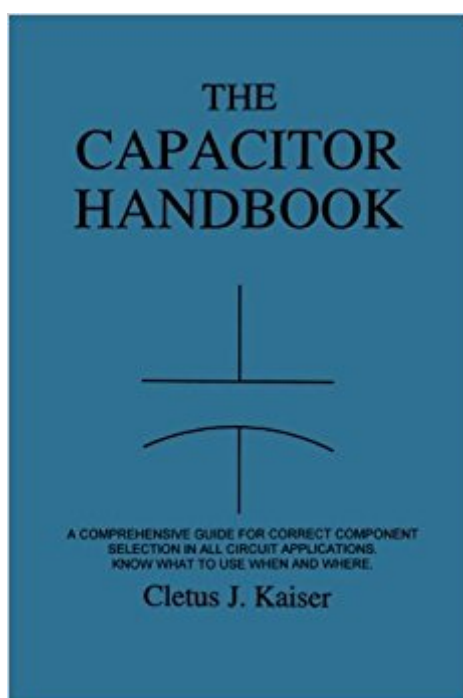


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# The Capacitor Handbook: A Comprehensive Guide For Correct Component Selection In All Circuit Applications. Know What To Use When And Where.



## Synopsis

This book provides practical guidance and application information when using capacitors in electronics and electrical circuit design. This easy-to-use book covers the following capacitor types: Ceramic, Plastic Film, Aluminum Electrolytic, Tantalum, Glass, Mica, and others. This book also has a very comprehensive Glossary and Index. The Selection Guidelines and the Symbols and Equations sections have the answers to all of your daily application questions. This book is one in a series of component handbooks.

## Book Information

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## Customer Reviews

"...a useful addition to the bookshelf of any engineer, technician, or hobbyist." -- Editor, Microwaves & RF Magazine, January 1996"...completely blow away older titles..." -- Editor, Sound & Video Contractor, S&VC, Magazine, February 20, 1997"...extensive description of the electrical characteristics and applications of this fundamental electronic device,..." -- Editor, Microwaves & RF Magazine, January 1996"...loads of practical circuit-application information." -- Technical Editor, Electronic Design Magazine, July 22, 1996

The author has 25 years experience as a components engineer in many areas of electronic and electrical circuit design. The book was written to assist the author and the many design engineers the author supported during the circuit design and product development.

most books I've read just say "capacitors store energy", and move on. but this book goes into detail about how the capacitor works, what's inside it, and how you can use it. this book uses diagrams to show how capacitors effect circuits, and how they are often used. the only problem with it is that it is a little hard to understand. it uses a lot of formulas (which is good), but I had to re-read some of the sections a few times to understand it. it also was a little different than I had expected. I thought it would just be on how to calculate farads, etc. but it also included sections on what types of capacitors (film, electrolytic, ceramic, etc.) and stuff like that. all in all, it's a great book.

This book is very informative on different types of capacitors. It is general, but gets to the point. Nice read. I have read other reviews and it does not give all the engineering formulas as some would like, but a few other books go way to far in the math formulas. What is great is it is informative and to the point. It will help select the correct type for circuit you are building, however it lacks the specific design. I did not mind this since most manufactures provide that anyway. Once I know what I am building and pick the right capacitor, I can get the manufactures specifics. It also was helpful in picking substitutes. For what it is it is great and nice

Excellent desktop reference on capacitors.

good info but hoping for more info on power / a/c stuff . no complaints though . just need more info . great for electronics stuff

OK we can't expect miracles for [this price] and 128 pages, but this book does not fulfill its promise of being a 'handbook'. It is best characterized as a 'primer' on capacitors, and not a good one at that. The treatment is very superficial with little hard data or usable reference links. Missing are any specific characteristic curves, concrete discussion of packaging, solderability (what are the soldering issues for metallized SMT polyester caps?), surface mount package styles and characteristics, inductive effects, silicon capacitors, voltage and frequency and pulse nonlinearities, safety rated capacitors, and so on. Diagrams where included are of a highly generic nature only. Also missing is a basic exemplar list of capacitor vendors and what they make - or any resource list except for a 6-entry bibliography of outdated or out of print material. It is also out of date generally (polycarbonates are discussed altho they have been discontinued for a year now). While I agree with the author that capacitors are largely 'misunderstood and misused', this book does not do much to clarify matters in a concrete way.

This is a great book for the design engineer. The book is unlike most on the subject, in that it covers the "real world" aspects of using capacitors. The book thoroughly covers the strengths and weaknesses of each type of capacitor as it relates to various applications. Highly recommended.

This handbook is one of the original trilogy of electronic components by Mr. Kaiser. It pulls together in one manual the basic concepts and principles on capacitors and is an essential reference manual for the electronics technician as well as a core curriculum for the teacher.

Construction of a electrical capacitor Design of a electrical capacitor

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