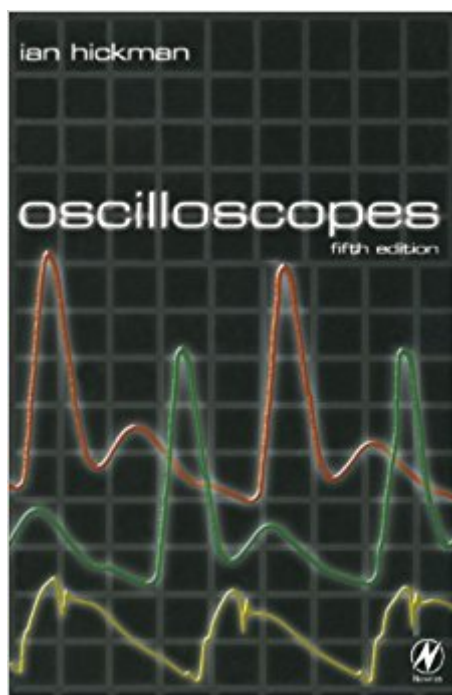


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# Oscilloscopes, Fifth Edition



## Synopsis

Oscilloscopes are essential tools for checking circuit operation and diagnosing faults, and an enormous range of models are available. But which is the right one for a particular application? Which features are essential and which not so important? Ian Hickman has the answers. This handy guide to oscilloscopes is essential reading for anyone who has to use a 'scope for their work or hobby: electronics designers, technicians, anyone in industry involved in test and measurement, electronics enthusiasts... Ian Hickman's review of all the latest types of 'scope currently available will prove especially useful for anyone planning to buy - or even build - an oscilloscope. The science and electronics of how oscilloscopes work is explained in order to enhance the reader's appreciation of how to use their 'scope. The practical use of oscilloscope is explained with clarity and supported with examples, encouraging the reader to think about the application of their oscilloscope and improve their use of this complex instrument. The advance of digital technology makes this timely revision of Ian Hickman's well known book an essential update for electronics professionals and enthusiasts alike. The only fully up-to-date guide to oscilloscopes available. A practical guide to getting the most out of an oscilloscope. Essential reading for anyone planning to invest in an expensive piece of equipment.

## Book Information

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## Customer Reviews

"...provide a definitive, up-to-date guide to choosing using and understanding more about osilloscopes." --What's New in Electronics, January 2001 "The readers appreciation of how to use

their scope is enhanced by thorough explanations. Ian Hickman explains the practical use of the oscilloscope and supports with examples." --Electronics Manufacture and Test, February 2001

This new edition covers the latest improved models, including digital storage oscilloscopes, digital sampling oscilloscopes, time-domain reflectometers for use on metallic and optical transmission systems, and ultra high-speed single-shot event recorders. Other topics mentioned include the use of x/y and x/t plotters, thermal and dot matrix printers etc (whether built in or otherwise) as oscilloscope hardcopy output devices, and the use of personal computers with expansion cards providing oscilloscope or logic analyzer facilities. Ian Hickman is one of the pen-names used by a professional electronics engineer of many years experience. Ian Hickman, BSc Hons, CEng, MIEE, MIEEE, is a present and sometime member of various national and international standards committees concerned with equipment and systems level applications of electronics and communications. He is also the author of numerous articles in the technical press, and has written a number of books including 'Analog Electronics', 'Practical RF Handbook', 'EDN Designer's Companion' and 'Analog Circuits Cookbook', all of which are available from Butterworth-Heinemann. --This text refers to an out of print or unavailable edition of this title.

This book contains a lot of good information on oscilloscopes that you really can't get in any other stand alone book. The problem is that the first edition of this book was in the early 1980's, and now the fifth edition was released in 2001. Oscilloscopes have changed a lot in those 20 years, this book has tried to keep pace, but the patchwork of add-ons and other enhancements really shows. What's really needed is a complete re-write or at least a complete re-organization of this book. Many the key topics of oscilloscopes are covered by referencing old obsolete oscilloscopes. This of course is foolish and is the result of quickly patching the book over years by adding new chapters for new technology, but not fixing the existing chapters to reference current technology. Anyways, there is still a lot of great information here. It's just not presented in the ideal way.

I have a lot to gain from this book.

started reading it and its very thorough- too much so for me. I really need a book on oscilloscope use for motorcycles only.

For the price an excellent book full of lots of valuable information. Very easy for a beginner to

understand oscilloscopes.

I am very pleased with my purchase. Thanks

I'm a first time user of oscilloscopes, and this book starts in well in advance of my beginners ability. I'm sure it's great for folks who have a fairly good background with oscilloscopes already, but I need to back up a ways for my learning skills. I think it'll help me out more in the future after I get some good hands on experience. An oscilloscope isn't something you just plug in and start poking around on electrical circuits with. You need patience and previous knowledge of the workings of components and circuitry to make it useful.

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