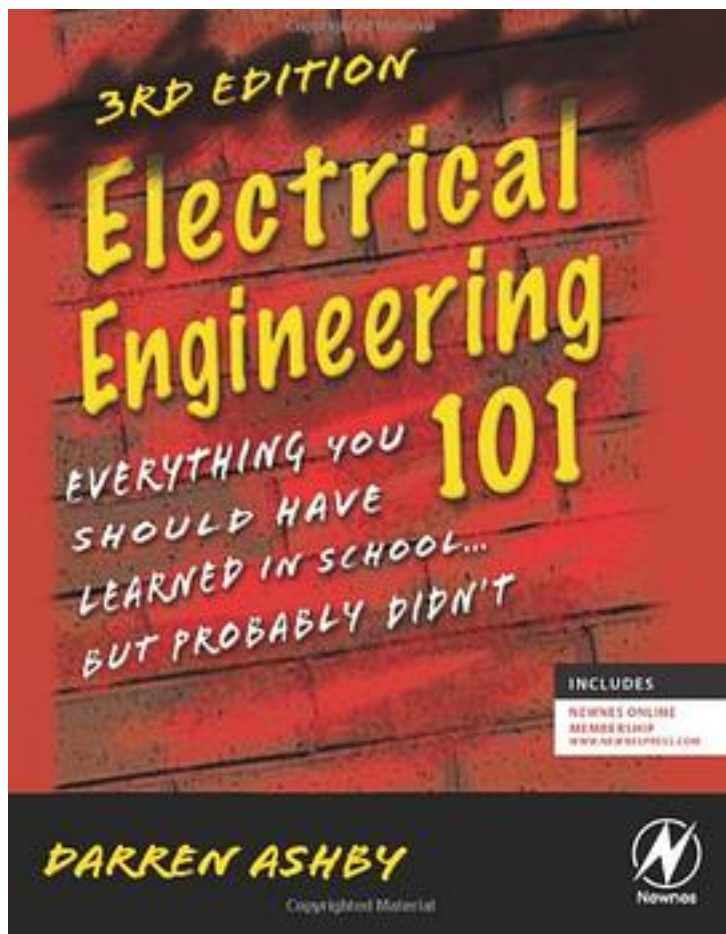


# Electrical Engineering 101



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Electrical Engineering 101 covers the basic theory and practice of electronics, starting by answering the question "What is electricity?" It goes on to explain the fundamental principles and components, relating them constantly to real-world examples. Sections

on tools and troubleshooting give engineers deeper understanding and the know-how to create and maintain their own electronic design projects. Unlike other books that simply describe electronics and provide step-by-step build instructions, EE101 delves into how and why electricity and electronics work, giving the reader the tools to take their electronics education to the next level. It is written in a down-to-earth style and explains jargon, technical terms and schematics as they arise. The author builds a genuine understanding of the fundamentals and shows how they can be applied to a range of engineering problems. This third edition includes more real-world examples and a glossary of formulae. It contains new coverage of: Microcontrollers FPGAs Classes of components Memory (RAM, ROM, etc.) Surface mount High speed design Board layout Advanced digital electronics (e.g. processors) Transistor circuits and circuit design Op-amp and logic circuits Use of test equipment Gives readers a simple explanation of complex concepts, in terms they can understand and relate to everyday life. Updated content throughout and new material on the latest technological advances. Provides readers with an invaluable set of tools and references that they can use in their everyday work.

### 作者介绍:

Darren

Ashby资深电子工程师和管理者，从事工程设计和管理工作已近20年。现任世界最大的健身器材企业ICON

Fitness公司（也是世界最大的嵌入式芯片用户之一）的电子产品线经理。毕业并曾任教于犹他州立大学。他也是业界活跃的技术专家，曾长期担任chipcenter.com等媒体的专栏作者。除本书外，他还与人合著了Circuit Design: Know It All一书。

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## 标签

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## 评论

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## 书评

原先是想找些模拟电路的书看看的，看到这本书的书名那么强悍，就买了一本看看。花了一个晚上看完，觉得“1、内容较浅，适合在校生或者刚触及这块的人。2、把抽象的东西形象化，比如电流比作水流之类的一些形象化比喻，比数字、模拟电路之类的书形象多了。3、把一些常见问题...

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最近这两个星期遇到一个运放的问题，发现自己的基础比较薄弱--运放的增益都不会算。到百度文库看了看，收获不大，许多文档都是教材汇编。请教了一个人，推荐了一本《集成运算放大器原理与应用-李清泉》，看了一下电子版，是上个世纪出的书，就决定不看了。到豆瓣上搜索了一下...

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P100

“根本没有数字量存在，所谓的数字量不过只不过是看起来很古怪的模拟量而已”  
[popexizhi]很久了，一直在思考离散世界和模拟的真实界限到底是什么，在现实世界中离散量与模拟量之间的灰色地带是什么。在看到这里时突然想明白一件事，离散世界只是系统论中提到的一个观点...

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