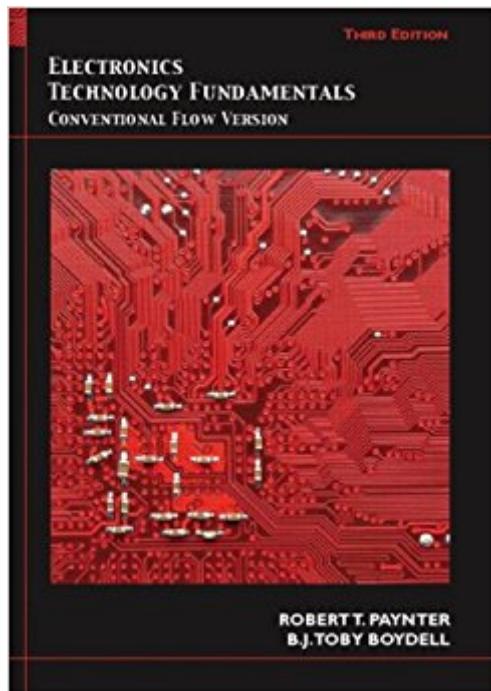


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# Electronics Technology Fundamentals: Conventional Flow Version (3rd Edition)



## **Synopsis**

Electronic Technology Fundamentals, Conventional Flow 3e was written to fulfill the need to address the constant development of new applications and technologies within a single text that presents the fundamentals of electronics (dc circuits, ac circuits, and devices). This unique text provides complete and concise coverage of the fundamentals of electronics without redundant examples and the equation derivations that take up so much space in traditional books. With an emphasis on component and circuit operation, analysis, applications, and testing, this text thoroughly explores the foundation of dc circuits, ac circuits, discrete electronic devices and op-amps in a narrative that students can understand. Many of today's basic electronics textbooks provide in-depth coverage of dc and ac circuits, but little more than introductory-level coverage of electronic devices and circuits. Unlike these books, Electronics Technology Fundamentals, Conventional Flow, 3e covers electronic devices and circuits as thoroughly as it does dc and ac circuits, making it the most comprehensive electronics fundamentals textbook on the market.

## **Book Information**

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## **Customer Reviews**

We used this text book for my first class in electronics this last year. I was surprised at how much I was understanding. This text has a very excellent recipe for instruction. The opening page of each chapter gives a list of objectives and then each objective is identified as it is addressed within the chapter. Diagrams, definitions, origins of formulas, examples, self-check answers, glossary, spec

sheets and index all work together to convey the student from ignorance to understanding. Read the material, answer the questions ( section reviews ), work the problems and you will learn electronics... I feel this does such a good job of fitting things together that I am keeping this book for future reference rather than selling it used.I am putting it on the shelf next to the electronic "Evil Genius" books and the "ARRL Handbook" to provide background and foundation.The ARRL Handbook for Radio Communications Electronic Circuits for the Evil Genius: 57 Lessons with Projects

This is the textbook for my son, Bobby who plans to be an Electrical Engineer hopefully from Georgia Tech in the next few years. Currently he is working on his basic core subjects and this is a 8 hour course taught at Georgia Middle Technical College in Kathleen, Ga.. The lectures and labs are 3 hours per day for 5 days a week and this textbook appears to cover the subject well.Back in the fall of 1975 I had the misfortune of taking a 2nd semester Physics course (electricity and magnetism) from a "weeder" professor from M.I.T. who then taught Engineering Physics II at Vanderbilt University. If his job was to weed young people out of physics then he did his job in a superb fashion. Before taking the Vandy class physics was my favorite subject; after this fall semester of Physics II with the M.I.T. professor I could not stand physics. Such was the transition in my outlook towards the subject after this weeder course. He made the class miserable. Looking back with more experience from other better teachers I understand why I hated Physics II as it was taught by Professor M.I.T.. For one thing we had a poor textbook that contained many differential equations with such things as triple integrations. Since I was only up to my 2nd course in Calculus I could only stare in bewilderment at the "latin and greek" hieroglyphics and scratch my head as to their meaning. The pace was extremely fast and we got both circuit analysis of series type and parrallel type together. They should not be taught together. And before that we got the chapter dealing with magnetism. The professor would spend the whole lecture time deriving equations and not explaining how to systematically attack practical problems.On our homework we had to do many proofs which most of us didn't have a clue. Being Vanderbilt students with a reputation for being hard workers we knew we had our hands full so we would meet in my room to try to "divide and conquer" the subject matter. This approach did not work; it kicked our butt. There were 5 of us on the undergraduate study team and we were completely stumped on the proofs. We would go from problem to problem and ask ourselves," Anybody got a clue what the hell they are asking ?" After a few minutes of staring at the problems we come back and say..... "Let's go to the next one and see if we can solve that problem". If the problem was about a concrete real world problem we could

grasp we could usually solve it but if it was a problem like "What is the mathematical basis for Gauss's law?" we were totally without a clue. This book by Robert T. Paynter and B.J. Toby Boydell is different. These authors know what they are doing. The book is well laid out and separates the series and parallel circuit theory and analysis with straight forward and understandable explanations. Problems start simple and then get more challenging in a linear fashion as you expect from someone who knows how to teach effectively. No curve ball proofs for egg-head PhD candidate wannabe's here. Just straight forward real world problems that start simple and get progressively more challenging. Also lots of problems to allow the student to get the feel of the numbers. That is the key to learning math and science. You must do lots and lots of problems until "it clicks". Also the chapters are laid out with decent amount of information without overwhelming the student. It is very straight forward and to the point. Important topics are highlighted and important nuances are italicized as if to say "Hey this is counter-intuitive, but it will bite you in the butt if you don't know it, so pay attention !" This is a heavy book. Don't drop it on your toe or you will need an ambulance. Give yourself lots of time to outline the chapters and then work the problems in a systematic way. You will need probably 12 - 16 hours a week to get the chapters down if you have a test per week per chapter. Yeah this is not a class you can show up, sleep during the lecture and get an A you need to go into the lecture hall like you own the place or this class will eat you alive even if you have a "good" teacher. This physics is not for the faint-hearted; you need to be aggressive and be willing to do what it takes to learn this or you will flunk this course. This is science and engineering and only two types of people survive - "The hard worker or the smart person". If you are not either of these types of people go somewhere else and major in Fine Arts or Political Science. You will not survive here if you are lazy. If you are a hard working student and like physics and want to learn from a great teaching textbook this is the book for you. Good luck on your future engineering and science career. I am a Chief Engineer in Aerospace and this is the foundation course for anyone who likes this type of study.

I am currently in my second year of college (2-year school) studying to become an electronics technician, and hopefully pursuing an engineering degree in the future. Basically, the first year is fundamental electronics (analog and digital), and the second year splits into two different programs: Electronics Technology and BioMedical Technology. I'm in the prior, which applies the knowledge in communications and industrial electronics. We used this book in the first year, and man, it's a wonderful, easy-to-understand book. The text starts off with DC principles such as Ohm's Law and Kirchoff's Laws when used in doing circuit analysis followed by AC principles with frequency and

phase shift. In the AC portion, it also talks about inductors and capacitors and their role in different circuits. After the DC and AC portions, the text discusses different semiconductors such as diodes, transistors, and op-amps. The text is very easy to read and easy to understand. It is the right balance of technical jargon and easy of understanding. Throughout each chapter, it provides examples that walk you through calculating circuits; at the end of each chapter, it gives you plenty of problems to review and apply your knowledge. I've found it very useful in my journey as an aspiring Technician (and hopefully, an Engineer one day). I keep coming back to this book to stay on track with the information, and it's something that will be in my library for years to come.

Easy to understand.

its alright

Just what I required. I got it on timely manner, I have been using it and I truly love it .

The good got to me almost head of time...Nothing to complain about..perfect conditions, No marks, scratches or anything of that nature

I used this book for a course in school xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xzxxxxxx xxxxx zxxxx

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