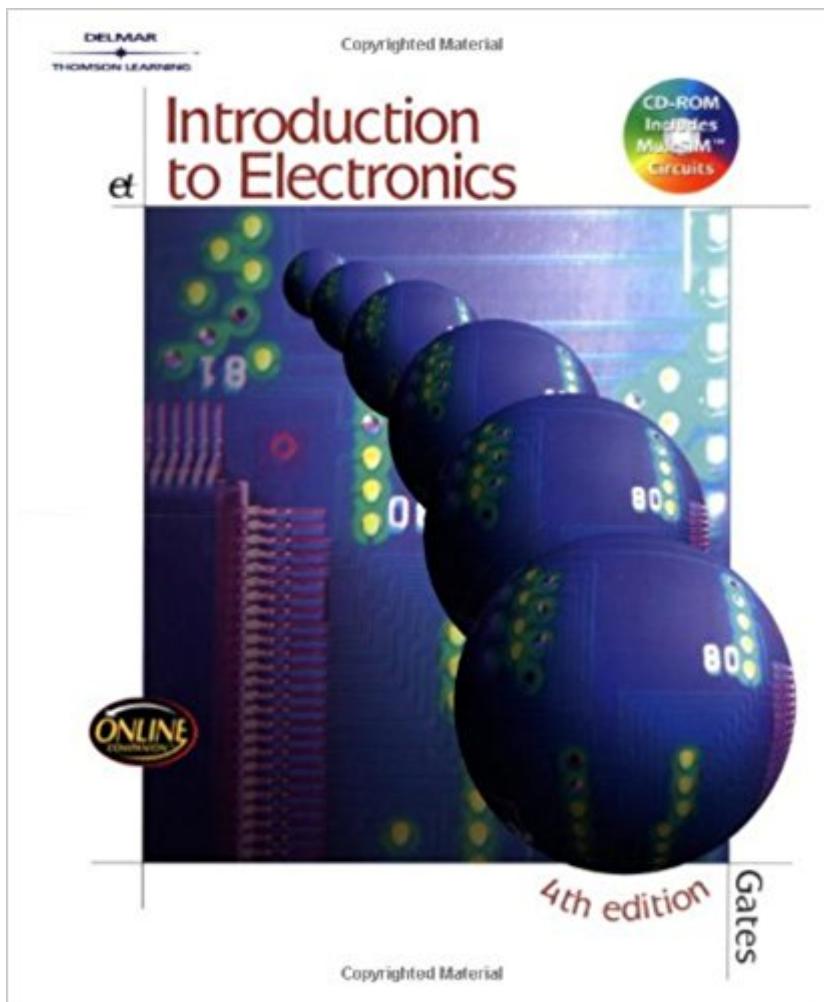


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Introduction To Electronics, 4th Edition



Synopsis

Now in its fourth edition, *Introduction to Electronics* continues to offer its readers a complete introduction to basic electricity/electronics principles with emphasis on hands-on application of theory. Expanded discussion of Capacitive AC, Inductive AC, and Resonance Circuits is just the beginning! For the first time, MultiSIM problems have been integrated into *Introduction to Electronics*, providing even greater opportunities to apply basic electronics principles and develop critical thinking skills by building, analyzing, and troubleshooting DC and AC circuits. In addition, this electron flow, algebra-based electricity/electronics primer now includes coverage of topics such as surface mount components, Karnaugh maps, and microcontrollers that are becoming increasingly important in today's world. *Introduction to Electronics* is the ideal choice for readers with no prior electronics experience who seek a basic background in DC and AC circuits that aligns closely with today's business and industry requirements. Objectives are clearly stated at the beginning of each brief, yet highly focused chapter to focus attention on key points. In addition, all-new photographs are used throughout the book and detailed, step-by-step examples are included to show how math and formulas are used. Chapter-end review questions and summaries ensure mastery, while careers are profiled throughout *Introduction to Electronics*, 4th Edition to stimulate the reader's interest in further study and/or potential employment in electronics or related fields.

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INTRODUCTION: Career Opportunities, Using a Calculator, Safety Precaution. DC CIRCUITS:

Fundamentals of Electricity, Current, Voltage, Resistance, Ohm's Law, Electrical measurements-Meters, Power, DC Circuits, Magnetism, Inductance, Capacitance. AC CIRCUITS: Alternating Current, AC Measurements, Resistive AC Circuits, Capacitive AC Circuits, Inductive AC Circuits, Resonance AC Circuits, Transformers. SEMICONDUCTOR DEVICES: Semiconductor Fundamentals, PN Junction Diodes, Bipolar Transistors, Field Effect Transistors, Thyristors, Integrated Circuits, Optoelectric Devices. LINEAR ELECTRONIC CIRCUITS: Power Supplies, Amplifier Basics, Amplifier Applications, Oscillators, Waveshaping Circuits. DIGITAL ELECTRONIC CIRCUITS: Binary number System, Basic Logic Gates, Simplifying Logic Circuits, Sequential Logic Circuits, Combinational Logic Circuits, Microprocessor Basics. APPENDICES: Scientific Notation, Periodic Table of Elements, Basic Formulas, Electronic Abbreviation, Greek Alphabet, Commonly Used Prefixes, Resistor Color Codes, Electronic Symbols, Semiconductor Schematic Symbols, Digital Logic Symbols.

Mr. Chartrand holds a Bachelor of Science degree in electrical engineering from Queen's University in Kingston Ontario. He has been teaching digital courses for 20 years at Niagara College in Welland, Ontario. Mr. Chartrand has made industry contributions with various designs including interfacing an infrared camera to a PC, creating a digital circuit board used as a PC training system, and designing a control pendant for an air-filled medical bed. He also worked as a plant engineer for General Motors.

All in all, this book has been very good for learning some electrical basics and concepts, but there are some problems. In chapter two, there is a misprinted chapter question that gets repeated, and in chapter eight, when explaining an equation it uses the word "Sum" when there is no addition involved. I think this is a little ridiculous, as this book is expensive and it is the sixth edition. I would think they would have gotten these things worked out by this point.

A++

An excellent introduction to basic electronics.

Excellent book and service

I used this book for my Introductions to Electronics class, I liked it somewhat, since the class didn't

go into details on specifics in class. As for the final though, I had to do something to which wasn't explained in detail in this book. This book is an "OK" book for anybody wanting to just look at the tip of the iceberg of the world of Electronics, since this book focuses on introduction to Electronics on a single spectrum instead of focusing in-depth on each subject. I just can not say for sure on whether or not this book is worth the \$100. If you are not using it for a class, since the book is basically like 4 semesters of Electronics pushed into a textbook, non-detailed at certain areas. I greatly recommend you to choose another book for greater details on a specific areas in Electronics, rather than this book if you want to learn about the in and outs of Electronics.

I have much to learn then this book gave me.

Good

needed for class good book

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