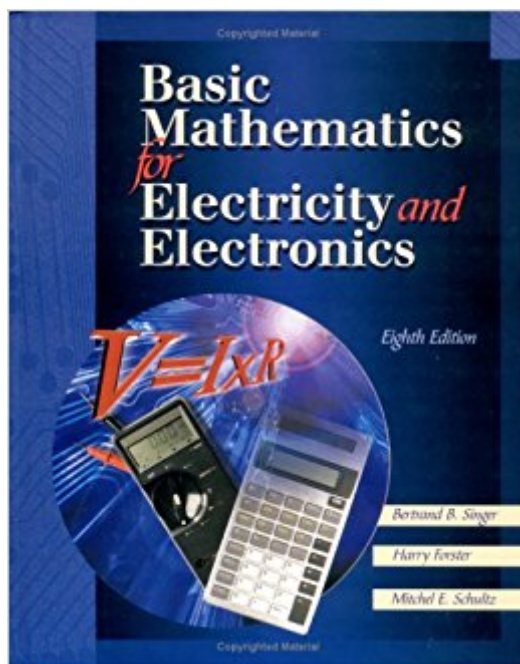


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Basic Mathematics For Electricity And Electronics



Synopsis

The math theory is developed in slow, simple stages and is directly applied to the solution of real problems. This method is backed up with "CHECKUPS" which act as a motivator, and "BRUSHUPS" which review the mathematical concepts immediately necessary for the continuance of the electrical development and applications.

Book Information

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This is the book for you if you are struggling to understand how to apply the basic laws of electronics: Ohm's, Thevenin's, Norton's, Kirchhoff's, etc. This book starts from basic arithmetic, works slowly up through fractions, and only winds up at school algebra about halfway through the book. By the end of the book they've touched on vectors, trigonometry, AC power, and Boolean algebra. These more advanced subjects are all treated at a very basic level: the algebra is simple school algebra, the trig is no more than is necessary to understand vectors, the vector math is only there to make phasor diagrams useful, phasors are only covered to make 3-phase power understandable, etc. The book's has a tilt towards the world of the industrial electrician, rather than that of the electronics technician. A symptom of this is that inductance is covered before capacitance -- motors are more visible than capacitors -- the opposite of the usual way in teaching electronics. This book will not teach you electronics, per se. You need to be reading this book along with an electronics text. This is a text book, not a narrative. It's all here as you remember from your grade school math books: word problems, partial lists of answers in the back of the book, worked example problems, etc. If you've already read The Art of Electronics by Horowitz and Hill and

didn't find the first chapter particularly hard going, this book is way too elementary for you.

Very small letters. But useful

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