

The most important thing in science is not to obtain new knowledge; it is to obtain new ways of thinking about old knowledge. -Vedam Subrahmanyam, astrophysicist and author- If you're like me, you understand how important it is to learn something new in order to grow in your career or in general. However, when the opportunity arises, especially when you've found a great website like www.learnxinythings.com, to polish up on some old concepts, you tend to stick with what you already know. Regardless of whether or not you'll be reviewing an old concept or learning a new one, Vedam Subrahmanyam's book called "Electrical Drives" is the way to go because it teaches you about electrical drives in a very simple manner. This is important because it will keep your attention for the full duration of the reading without feeling overwhelmed by technical lingo. If you want to know how this book is structured and what the theme of the book is all about, this article will give you insight into what can be expected from this book. Whether you're a recent graduate student trying to bone up on some old electrical engineering concepts, or you're an electrical engineer trying to refresh yourself with the basics, this book is for you. Additionally, if you don't want to purchase the book (which by the way is very inexpensive), there are online videos that cover the same content in a visual manner. So let's get started! The book contains 16 chapters in total and is organized into three distinct parts: the first part covers the basics, and then it progressively gets more complicated in each section. The author's approach is to explain one concept at a time at a level easily digestible by anyone looking to learn about electrical drives. Part One: The Basics The second chapter in the book is about basic AC theory. It begins with the basics, such as the definition of power and voltage, and then it goes on to explain Fourier's law. Additionally, you are given a description of how voltage is derived from an AC source at different points in the circuit. You'll also be taught about power factor correction in this chapter if that's something that interests you. This whole section alone will allow beginner students to understand the difference between volts, amps, watts, kilowatts, etc. The third chapter deals with the basics of DC theory, such as current and voltage. You'll understand Ohm's law and its relationship to resistance and conductors. This chapter also deals with Kirchhoff's voltage and current laws, which you'll use again in Chapter 7 when we talk about power quality. This is a very important concept that will be explained later in this article. The fourth chapter explains the concepts of transmission lines, such as power lines and coaxial cables. It also covers transformers and their types: auto transformers, induction transformers, toroidal transformers, etc.

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