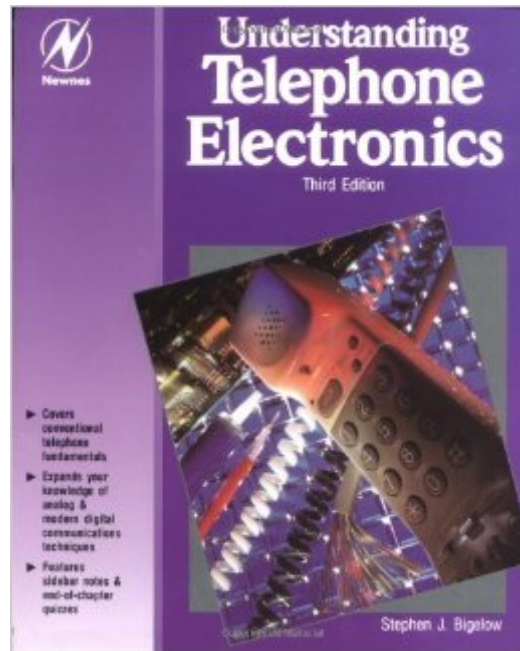


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# Understanding Telephone Electronics, Third Edition



## Synopsis

Understanding Telephone Electronics is an overview of telephone networking which shows how it is connected with the real world and introduces its component parts. The book explains the basics of the non-electronic telephone set and vital telephone functions. It then explores signal processing, telephone line interfacing, tone and pulse generation, and ringers. These concepts and principles are accompanied by a thorough look at the world of digital communications. The book spells out the advantages and disadvantages of digital transmission, sampling, coding, and the various formats of multiplexed systems. The Central Office and all the various transmission modes are included, providing a complete look at telephone systems. Plus, you learn the evolving features of network transmission and wireless telephones. Covers conventional telephone fundamentals and analog and modern digital communications techniques. Features sidebar notes and end of chapter quizzes.

## Book Information

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## Customer Reviews

You will be interested in this book if you:

- o Want to learn about analogue, circuit switched, telephony basics;
- o Want to learn about the internal workings of modern analogue electronic phones;
- o Are looking for a text suitable for polytechnic (eg: TAFE) students or first year engineering students;
- o Know about older electromechanical systems and want to update your knowledge.

This is not suitable for anyone who:

- o wants to learn about modern VOIP technology;
- o has no background in electronics.

Originally prepared for Texas Instruments Information Publishing Centre, this provides the reader with an introduction to modern electronic telephones as found in customer premises, as

well as an understanding of the functioning of analogue exchange (or "central office" in US usage) equipment. While the major telephone service providers are switching to VOIP over their own private networks and planning "soft switches", this is still how the majority of telephone conversations are transmitted. The technology is explained by looking at functional blocks, showing how this is implemented in circuits with discrete components, then giving examples of ICs that perform the tasks. Diagrams are used liberally and are well-presented. Explanations are clear. You can learn a lot from the text alone, but if you are reading this, then do yourself a favour and get hold of a telephone that you can dissect and experiment on. You should also try out a few circuits. Warning: never connect telephones that you have repaired or modified to the public switched network or use the network to conduct experiments.

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