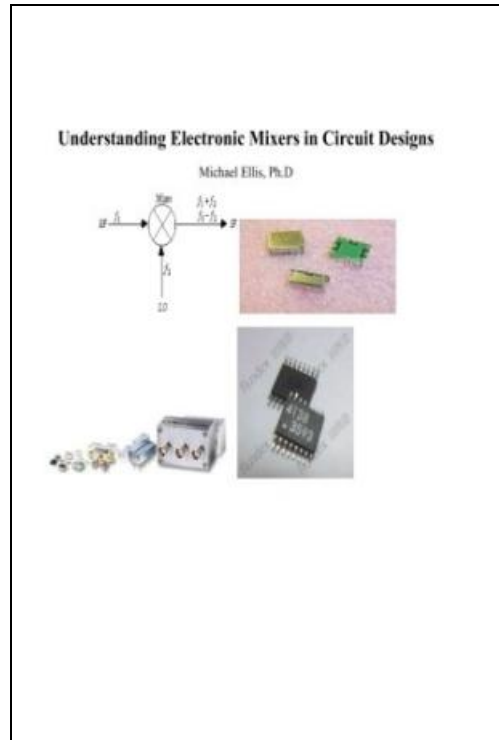


Understanding Electronic Mixers in Circuit Designs



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Reviews

It is really an incredible publication which i actually have possibly read through. It really is writter in easy phrases and not confusing. Once you begin to read the book, it is extremely difficult to leave it before concluding.
(Jodie Wehner)

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Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.This book is a condensed explanation of frequency mixers used in the electronic communication industry. Chapter 1 starts by defining the mixer and introduces concepts such as the harmonic intermodulation table, input and output intercept points, and other definitions. Chapter 2 introduces more advanced concepts such as BPSK and QPSK decoding and the Weaver method of single sideband generation and decoding. Chapter 3 is a full derivation of equations that define the gilbert cell, considering that most integrated circuits that implement mixers do so by using a gilbert cell. Chapter 4 is an overview of different types of mixers, starting with the Pentagrid mixer, includes different types of mixers used in analog and digital phase locked loop circuits, and ends in a little know technique using analog-to-digital conversion as a mixer for down converting. Chapter 5 shows how to use mixers for analog computation functions such as multiplication, division, squaring, and square root, including powers and roots that are non-integral. Chapter 6 gives application examples with working schematic slices for each example. Chapter 7 provides complete schematic examples of different types of mixers used in radio receivers.



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