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Behzad Razavi M.Sc. and

Ph.D. degrees in electrical engineering from Stanford University in 1988 and 1992, respectively. He was with AT&T Bell Laboratories and subsequently Hewlett-Packard Laboratories until 1996. He was also an Adjunct Professor at Princeton University from 1992 to 1994.

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To succeed in the practice of microelectronics in industry, students must develop the ability to think intuitively about circuits.



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Chap. 1 Introduction to  
Microelectronics translating  
the spectrum back to zero  
center frequency is  
necessary. For example, as  
depicted in Fig.

1.4(a), multiplication by a  
sinusoid,  $A \cos(2\pi f_c t)$ ,  
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attempt to arrive at a solution using basic principles, thus presenting both failures and successes in the process. When we do arrive at the final solution, the student has seen the exact role of each device as well as the logical thought sequence behind synthesizing the circuit. Another essential component of this book is "analysis by inspection." This "mentality" is created in two steps. First, the behavior of elementary building blocks is formulated using a "verbal" description of each analytical result (e.g., "looking into the emitter,

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