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Behzad Razavi received the B.Sc. degree in electrical engineering from Sharif University of Technology in 1985, and the 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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1 INTRODUCTION TO MICROELECTRONICS 1 1.1 Electronics versus Microelectronics 1 1.2 Examples of Electronic Systems 2 1.2.1 Cellular Telephone 2 1.2.2 Digital Camera 5 1.2.3 Analog Versus Digital 7 1.3 Basic Concepts 8 1.3.1 Analog and Digital Signals 8 1.3.2 Analog Circuits 10 1.3.3 Digital Circuits 11 1.3.4 Basic Circuit Theorems 13 1.4 Chapter Summary 20 2 BASIC PHYSICS OF SEMICONDUCTORS 21 2 ...

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To succeed in the practice of microelectronics in industry, students must develop the ability to think intuitively about circuits. They need to move beyond simply plugging and chugging numbers in equations and be prepared to face real design trade-offs.

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BR Wiley/Razavi/Fundamentals of Microelectronics [Razavi.cls v. 2006] June 30, 2007 at 13:42 4 (1) 4 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 f c t), translates the spectrum to left and rightby – C 0 + C f

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