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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

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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 \Box C 0 + C f

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