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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 Page 24/36

Laboratories until 1996. He was also an Adjunct Professor at Princeton University from 1992 to 1994.

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frequency is necessary.

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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 right by - C 0 + C f

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