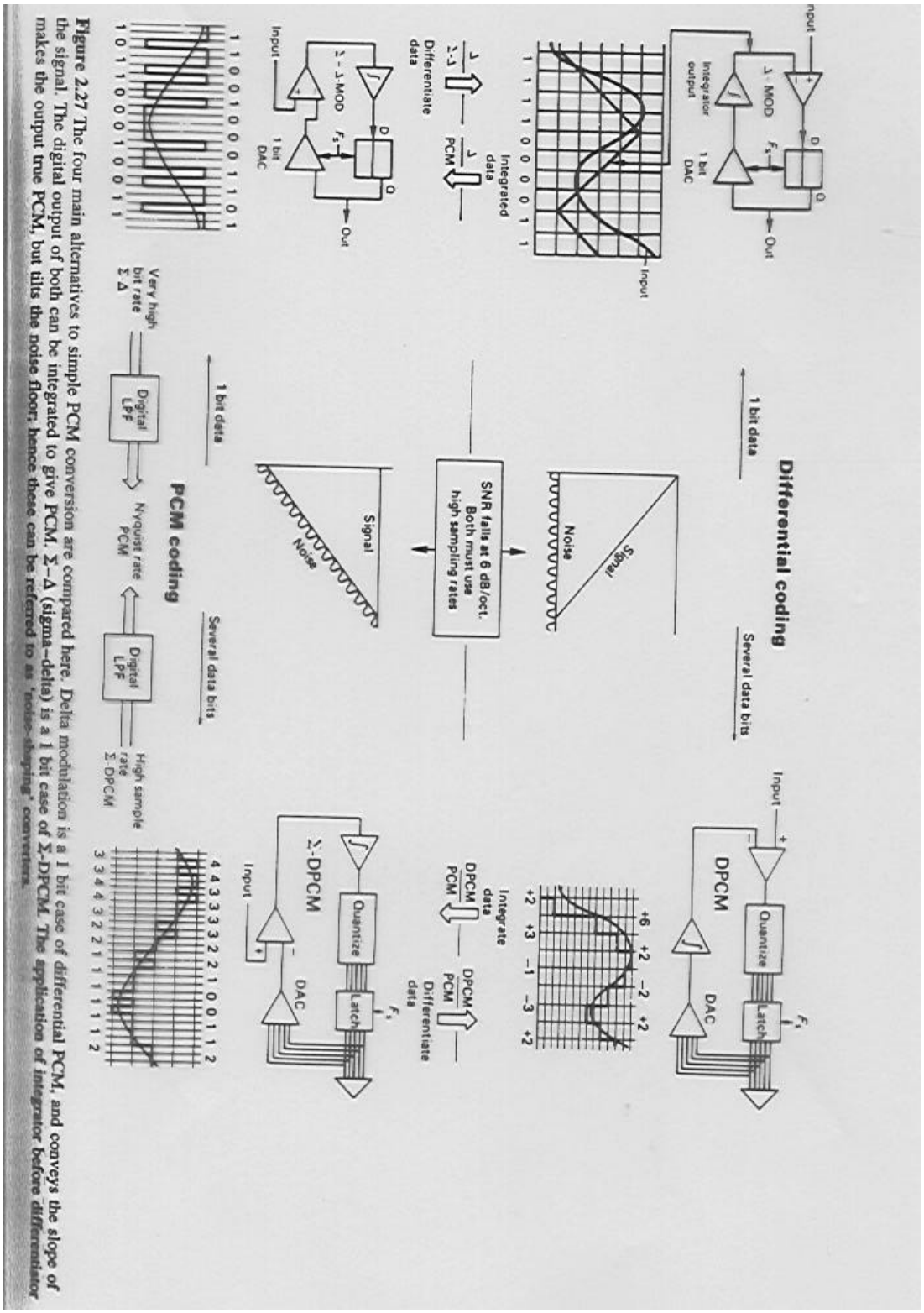

Figure 2.27 The four main alternatives to simple PCM conversion are compared here. Delta modulation is a 1 bit case of differential PCM, and conveys the slope of the signal. The digital output of both can be integrated to give PCM. Σ–Δ (sigma–delta) is a 1 bit case of Σ-DPCM. The application of integrator before differentiator makes the output true PCM, but tilts the noise floor; hence these can be referred to as 'noise-shaping' converters.

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Watkinson John	An Introduction to Digital Audio	Focal Press , an imprint of Butterworth -Heinemann Ltd , Oxford OX2 8DP GB	1995