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A signal is a function of independent variables such as time, distance, position, temperature and  
pressure. A signal carries information, and the objective of signal processing is to extract  
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circuits, these signal values have to be quantized into a set of discrete values, and the final result is called a digital signal. When the quantization effect is ignored, the terms discrete-time signal and digital signal can be used interchangeably. In signal processing, a system is defined as a process whose input and output are signals.

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Jiang has taught digital signal processing, control systems and communication systems for many years. She has published a number of refereed technical articles in journals, conference papers and book chapters in the area of digital signal processing, and co-authored 4 textbooks.

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(b) Refer to Fig 1.15-2.  $y(n)$  is a sinusoidal signal. By taking the even numbered samples, the sampling frequency is reduced to half i.e., 25kHz which is still greater than the Nyquist rate.

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### **Digital Signal Processing (DSP) Michael J. Piovoso**

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