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Principles of Measurement Systems Fourth Edition John P. Bentley Emeritus Professor of Measurement Systems University of Teesside PEARSON Prentice Hall

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In general a probability density function $p(x)$ is defined so that the integral $\int_{x_1}^{x_2} p(x) dx$ (equal to the area under the curve in Figure 2.10 between x_1 and x_2) is the probability P_{x_1, x_2} of x lying between x_1 and x_2 (Section 6.2). In this case the probability density function is rectangular (Figure 2.9), i.e.

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In other cases, this element in the measurement system takes the form either of a signal presentation unit or of a signal-recording unit. These take many forms according to the requirements of the particular measurement application, and the range of possible units is discussed more fully in Chapter 11.

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