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Principles of Measurement Systems ... 3.2 The error probability density function of a system of ... mental principles of measurement which underlie these studies.

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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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Measurement Systems K. Craig 2 References "Measurement Systems" Application and Design 5 th Edition, Ernest Doebelin, McGraw Hill, 2004. "Control Sensors and Actuators" Clarence deSilva, Prentice Hall, 1989.

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Exam in: Measurement Systems Teacher: Johan Carlson, Ext. (ankn.). 2517 Problems: 5 (5 points per problem) Tools allowed: BETA (Mathematics Handbook), Physics handbook, Language dictionary, calculator Text book: Principles of Measurement Systems, by John Bentley Solutions 1. A thermocouple sensor has an electromotive force (e.m.f.) in μV .

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PRINCIPLES OF ELECTRICAL MEASUREMENT

1.1 Measurement units The very first measurement units were those used in barter trade to quantify the amounts being exchanged and to establish clear rules about the relative values of different commodities.

Such early systems of measurement were based on whatever was available as a measuring unit.

Introduction to measurement

Part A: General Principles 1. The general measurement system 2. Static characteristics of measurement system elements 3. The accuracy of measurement systems in the steady state 4. Dynamic characteristics of measurement systems 5. Loading effects and two-port networks 6. Signals and noise in measurement systems 7.

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