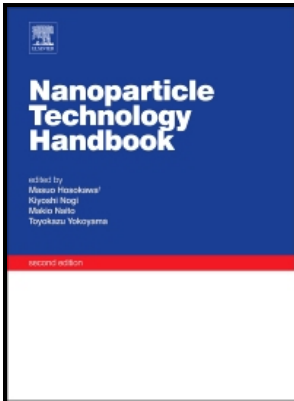


Handbook of electrical noise - measurement and technology

Tab Professional and Reference Books - Understanding noise in electronic instrumentation



Description: -

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Australia -- In literature.

Mackenzie, Kenneth, 1913-1955 -- Criticism and interpretation.

Electronic circuits -- Noise.

Electronic noise. Handbook of electrical noise - measurement and technology

-Handbook of electrical noise - measurement and technology

Notes: Includes index.

This edition was published in 1987



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Tags: #Understanding #noise #in #electronic #instrumentation

Understanding noise in electronic instrumentation

It can be reduced by using wire-wound resistors. Any free-standing resistor will display a small but measurable voltage across its terminals unless shunted by connecting the leads, in which case there is a small but measurable electrical current between the leads.

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Multipurpose Knob a permits the user to select the number of consecutive waveforms to be averaged, ranging from two to 512. Current and voltage transitions occur in discrete steps, lasting for seconds or small fractions thereof.

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Shielded lines, installed in grounded conduit, are less noisy.

Understanding noise in electronic instrumentation

Twisted conductors in conjunction with differential signaling are far less vulnerable to interference caused by unintended capacitive or inductive coupling. In audio systems, speaker wires function as interference antenna pick-ups.

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In resistors and FETs it is linear, while in BJTs and diodes it is non-linear.

Understanding noise in electronic instrumentation

Often, interference can be reduced to an acceptable level by boosting the signal strength, raising the signal-to-noise ratio.

Thermal noise is generated internally, within the measuring instrument, within equipment being investigated and within the probe and cabling conveying the signal to instrumentation inputs. A problem in this noise mitigation technique, however, is that often the full bandwidth is required to display the signal of interest.

Understanding noise in electronic instrumentation

In the , for example, press the channel button to bring up the horizontal channel menu. Then press the soft key associated with Bandwidth to bring up the vertical Bandwidth menu.

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