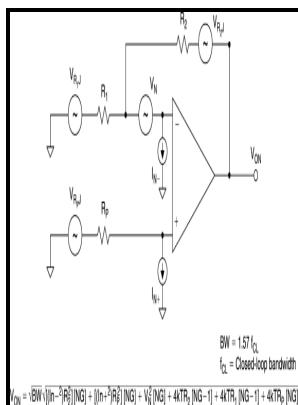


Handbook of electrical noise - measurement and technology

Tab Professional and Reference Books - 0830698078



Description: -

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: #Handbook #of #Electrical #Noise #: #Measurement #and #Technology #by #Charles #A. #Vergers #(1987, #Hardcover) #for #sale #online

Understanding noise in electronic instrumentation

Ordinary wire segments, circuit board traces, resistors, inductors, capacitors and all solid-components exhibit thermal noise. Because thermal noise is a broad-spectrum phenomenon, it can usually be reduced by means of bandwidth limiting.

Understanding noise in electronic instrumentation

We see it as snow in video and hear it as odd sounds in audio.

Handbook of Electrical Noise : Measurement and Technology by Charles A. Vergers (1987, Hardcover) for sale online

There are multiple methods of mitigating thermal noise, such as cooling, bandwidth limiting and signal averaging. Dust Jacket Condition: As New. Then, thermal noise is a higher fractional component and because it is wide-spectrum, it can be reduced by bandwidth-limiting techniques.

Handbook of Electrical Noise : Measurement and Technology by Charles A. Vergers (1987, Hardcover) for sale online

Solar noise comes and goes. 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. Also, it is more intense due to incident solar radiation.

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It can be reduced by using wire-wound resistors.

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Electrical noise generated within nearby equipment propagates through air. As for thermal noise, the principle mitigation techniques are bandwidth limiting and signal averaging. Soft keys permit the user to limit the bandwidth to 250 MHz and 20 MHz.

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In measuring or displaying weak signals, noise places the ultimate limit on detectability.

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