



Measuring Signal Generators: Theory & Design (Signals and Communication Technology)

Yuriy K. Rybin

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The book brings together the following issues:

- Theory of deterministic, random and discrete signals reproducible in oscillatory systems of generators;
- Generation of periodic signals with a specified spectrum, harmonic distortion factor and random signals with specified probability density function and spectral density;
- Synthesis of oscillatory system structures;
- Analysis of oscillatory systems with non-linear elements and oscillation amplitude stabilization systems;
- It considers the conditions and criteria of steady-state modes in signal generators on active four-pole elements with unidirectional and bidirectional transmission of signals and on two-pole elements; analogues of Barkhausen criteria;
- Optimization of oscillatory system structures by harmonic distortion level, minimization of a frequency error and set-up time of the steady state mode;
- Theory of construction of random signal generators;
- Construction of discrete and digital signal generators;
- Practical design of main units of generators;
- Practical block diagrams of both analog and digital signal generators.

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