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Key words: signal synthesizing, continuous phase modulation, trellis code modulation coding.

In this article the effective synthesizing algorithm of signal-code sequences (SCS) with continuous phase for memoryless modulator and trellis code modulation based coder are proposed. The results of synthesized SCS comparison with minimal shift-keying modulation (MSK) signals are adduced. The advantage of noise immunity for synthesized SCS in comparison with MSK makes up 3.4 dB. Also the advantage of spectra side-lobe level frequency for synthesized SCS in comparison with MSK makes up 4 dB3

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Key words: imitation modelling, signal, noise, filtering, terminal memory filters, quantization period, sampling interval, running window, median filter, additive noise, multiplicative noise.

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Key words: model, spectrum, signal simulation, time sequences modeling, spectral components importance.

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Key words: multichannel wireless system, radiofrequency tract, channel testing, characteristics estimation, complex transfer function, stochastic test signal.

By the method of maximum likelihood optimal radiofrequency tract complex transfer function estimation algorithm was synthesized and its efficiency analysis in comparison with quasioptimal algorithm was performed. A research of stochastic test signal bandwidth impact on estimation accuracy of working channel complex transfer function relative to reference one in the presence of radiofrequency tract self-noise was carried out. Optimal values of test signal bandwidth were obtained16

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Key words: armament and combat equipment, field signal centre, means for reducing the conspicuousness, tell-tale signature, technical means of reconnaissance, high-precision weapon, optovisual wave range, infrared wave range, optoelectronic suppression.

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Key words: monopole mass analyzer, thin-walled hyperbolic electrode, shape of mass peak, resolution.

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Key words: metal ceramic mercury thyatron, average anode current, reversed anode voltage, volume mercury concentration, environmental safety, filamentary oxide-coated cathode, grid, external anode, amalgamation, solid-state mercury oscillator, nonevaporable titanium getter.

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Key words: nanoelectronics, nanomaterials, nanoscale data storage, atomic-force microscopy.

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Key words: oscillator, microwaves, efficiency, double-gap cavity.

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Key words: computer telephony, wavelet-analysis, Hurgina-Yakovleva presentation.

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