

DESIGN OF FRACTAL RADIO SYSTEMS: FUNCTIONING ALGORITHMS AND HARDWARE PRINCIPLES FOR THE FIRST FRACTAL NON-PARAMETRIC DETECTOR OF RADIO SIGNALS

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The principles of designing the functional algorithms had been elaborated and the principles of hardware design for the fractal non-parametric detector of radar signals (FNDRS) had been investigated. The FNDRS block diagram had been composed, modes of operation sub-modules ADC and the digital receiving of radio signals had been analyzed. The FNDRS model structure had been determined basing on firstly proposed in IRE RAS conception on topology sampling and fractal signature. The FNDRS model had been tested experimentally using both frequency and time scaling to detect the sinusoidal and pulse signals covered by additive noise and disturbance with one-dimensional sampling. The probabilities for correct detection had been calculated and the comparison between the classical accumulation mode and the elaborated fractal filtration method had been carried out.

Introduction. The *fractal radio systems* conception suggested and successively developing in IRE RAS [1 – 162] allow us look in a new fashion on the traditional methods of the radio systems design. In such “fractal” approach it is naturally to focus an attention on the description and processing of the radio physical signals (fields) exceptionally in the fractal measure space, using the scaling hypothesis and “heavy tails” distributions or stable distributions. All results set forth below have priority in Russia and serve as a starting material for the further development and foundation the practical application for fractal methods in radio electronics and radio physics, as well as for the developing the fundamentally new fractal devices and fractal radio systems.

The development of the first etalon dictionary of fractal properties for target classes [45, 134, 136] and the constant improvement of algorithmic supply are the main stages when developing and modeling the fractal non-parametric detector of radar signals (FNDRS) in the specially designed processor form.

The electro dynamic properties of *fractal antennae* based on the Sierpinski’s curve have been firstly investigated in [44] on basis of numerical solution algorithms for the hypersingular integral equations. The analysis has been made for the fractal antennae with the changing angle of opening. It is shown [44] that the discussed calculation method can be applied to the wide set of electro dynamic tasks in investigating the fractal magnon crystals, the fractal resonators, the fractal screens as well as the other *fractal surfaces and volumes with the frequency selectivity*.

The fractal antennae are extremely effective in developing the dual-frequency or multi-frequency radar or telecommunication systems. The multi-frequency radio measurements combined with the fractal treatment of obtained information seem to be the serious alternative to the existing methods of the signal-to-noise improvement. Since any target has its own characteristic scales the selection of the sounding frequency grid allow to determine directly the new class of features besides mentioned above in the form of *fractal-frequency signatures*.

Basing on the obtained results we may talk about the designing not only *fractal blocks (devices)* but also the total *fractal radio system* itself directly. Such fractal radio systems are involving structurally (starting from an input) fractal antennae and the digital fractal detectors.

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