

Institute of Physics

Chair of Physical Process Modeling and Signal Processing

Lecturer on an hourly basis

✉ a.hakhoumian@ysu.am

Publications

Article

Hybrid Bispectrum-Waterfall Feature Extraction with CS-DSB for RF Receiver

N.Y. Gasparyan, A.A. Hakhoumian, E.R. Sivolenko

Armenian Journal of Physics 2025 43-47

Article

Analysis of Harmonic Signals in Non-Real Time of Moving Targets in Complex Environments Using Higher-Order Statistics in LabVIEW [Анализ гармонических сигналов в нереальном времени движущихся целей в сложных средах с использованием статистики более высоко]

A. Hakhoumian, M. Barseghyan, N. Gasparyan, B. Hovhannisyan, E. Sivolenko

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2024 408-412

Article

More accurate and effective monitoring of moving targets in complex environments using “spectral mask” for harmonic signatures using higher-ordered statistics

Eduard Sivolenko, Arsen Hakhoumian, Naira Gasparyan, Mane Barseghyan, Hakob Babayan

IET Conference Proceedings 2024 49-52

Article

SC-DSB signal as a probe signal for testing nonlinearity in electronic circuits

Naira Gasparyan, Arsen Hakhoumian, Eduard Sivolenko, Mane Barseghyan

IET Conference Proceedings 2024 75-78

Article

Electrically Small Microstrip Antenna Based on Magnetodielectric Materials

Hovhannes Haroyan, Arsen Hakhoumian, Ararat Stepanyan

Journal of Telecommunications and Information Technology 2022 98-102

Article

Միկրոսլիբային խոցող զենք. տեսության և կառուցվածքի որոշ հարցեր

Հ. Ս. Հարոյան, Խ. Վ. Ներկարարյան, Ա. Ա. Հախումյան, Ա. Հ. Մակարյան, Կ. Ռ. Միրզոյան

Հայկական Բանալ 2021 67-82

Article

ВЛИЯНИЕ ПОГЛОЩЕНИЯ НА ЭФФЕКТИВНОСТЬ ГЕНЕРАЦИИ ТЕРАГЕРЦОВОГО ИЗЛУЧЕНИЯ В МЕТАЛЛИЧЕСКОМ ВОЛНОВОДЕ, ЧАСТИЧНО ЗАПОЛНЕННОМ НЕЛИНЕЙНЫМ КРИСТАЛЛОМ LiNbO₃, DAST ИЛИ ZnTe

А.С. НИКОГОСЯН, Р.М. МАРТИРОСЯН, А.А. АХУМЯН, А.О. МАКАРЯН, В.Р. ТАТЕВОСЯН, Г.Н. ГОЛЬЦМАН,

С.В. АНТИПОВ

Article

Single zone Fresnel dielectric plate antenna

A. Hakhoumian, A. Sargsyan

IEEE Xplore 2019 153046

Article

Effect of Absorption on The Efficiency of THz Radiation Generation in a Nonlinear Crystal Placed Into a Waveguide

A.S. Nikoghosyan, R.M. Martirosyan, A.A. Hakhoumian, A.H. Makaryan, V.R.Tadevosyan, G.N. Goltsman,

S.V. Antipov

Armenian Journal of Physics 2018 257-262

Article

Efficient Ultrashort THz Pulse Generation in LiNbO₃, ZnTe, GaSe and DAST Crystals

A. S. Nikoghosyan, R. M. Martirosyan, A. A. Hakhoumian

Armenian Journal of Physics 2018 263-268

Article

Magneto-Optical Visualization by Bi:YIG Thin Films Prepared at Low Temperatures

Ogsen Galstyan, Hanju Lee, Arsen Babajanyan, Arsen Hakhoumian, Barry Friedman, Kiejin Lee

Journal of Applied Physics 2015 163914. 6

<http://aip.scitation.org/jap/info/contact>

Article

Аналитическое описание тороидального резонатора высокой добротности в терагерцовой области частот

Т. А. Арутюнян, А. Ю. Варданян, А. А. Ахумян, Х. В. Неркарарян

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2012

433-441

Conference

Ferromagnetic detector of infrared radiation

D. Bagdasaryan, A. Hakhoumian, R. Martirosian, A. Julfayan, A. Makaryan, F. Nazari, V. Tadevosyan

Conference

Effect of attenuation on the efficiency of THz radiation generation in a nonlinear crystal integrated into a waveguide

A.S. Nikoghosyan, R.M. Martirosyan, A.A. Hakhoumian, A.O. Makaryan, V.R. Tadevosyan, G.N. Goltsman,

S.V. Antipov
