

Noise Theory and Practice

Scientific Journal
Vol. 3 No. 3

The founder - LLC 'Acoustic Design Institute'
in cooperation with Baltic State Technical
University 'VOENMEH' named after
D. F. Ustinov

Editor-in-chief

Nickolay Ivanov, Professor
Doctor of Engineering Science
St. Petersburg, Russian Federation

Deputy Editor-in-Chief

Gennadiy Kurzev, Professor
Ph.D. of Engineering Science
St. Petersburg, Russian Federation

Members of the Editorial Board

Lyudmila Drozdova, Professor
Ph.D. of Engineering Science
St. Petersburg, Russian Federation

Igor Zapletnikov, Professor
Doctor of Engineering Science
Donetsk, Ukraine

Ilya Tsukernikov, Professor
Doctor of Engineering Science
Moscow, Russian Federation

Sergio Luzzi, Professor
Florence, Italy

Vladimir Tupov, Professor
Doctor of Engineering Science
Moscow, Russian Federation

Andrey Vasilyev, Professor
Doctor of Engineering Science
Samara, Russian Federation

Alexander Tyurin, Professor
Doctor of Engineering Science
Izhevsk, Russian Federation

Natalya Tyurina
Doctor of Engineering Science
St. Petersburg, Russian Federation

Aleksandr Shashurin, Assist. Professor
Ph.D. of Engineering Science
St. Petersburg, Russian Federation

Iuliia Boiko
Ph.D. of Engineering Science
St. Petersburg, Russian Federation

Location address of the Editorial office

3/5 1st Krasnoarmeyskaya street
St. Petersburg, Russian Federation
Phone 8 (812) 495-77-97
www.noisetp.com
e-mail: noise.science@gmail.com

Executive Secretary

Boiko Iuliia

Journal is registered in Federal service
for supervision of communications,
information technology, and
mass media

The certificate of registration
ЭЛ № ФС 77-61637

Contents

- | | |
|--|------------|
| Arda M., Aydogdu M.
Nonlocal Gradient Approach on Torsional
Vibration of CNTs
p. 2-10 | ENG |
| Antonov S. N.
Acoustic sensor high-power laser pulse radiation
p. 11-18 | RUS |
| Timushev S.F., Gavriilyuk V.N., Aksenov A.A.,
Klimenko D.V.
Turbomachinery tonal noise source and acoustic field
CFD-CAA modeling in presence of SAS complex
acoustic impedance boundaries
p. 19-30 | RUS |
| Voronkov S.S.
On the sources of aerodynamic noise in a viscous
heat-conducting gas
p. 31-38 | RUS |
| Drozdova L.F., Kudaev A.V., Matveev P.V.
Investigation of the effectiveness of noise-reducing
elements of the enclosure
p. 39-45 | RUS |
| Roshchina N.V.
Normative requirements for a noise barriers
стр. 46-49 | RUS |
| Ivanov N.I., Boiko I.S., Luzzi S.
Carletti E.
Experience in noise protection measures for railways
constructions in Russia and Italy
p. 50-60 | RUS
ENG |