

S02 Nonlinear acoustics of granular media

1083 Invited

Strongly Nonlinear Wave Dynamics in Low Dimensional Granular Systems

Vitali F. Nesterenko, Chiara Daraio, Eric B. Herbold, David Kim

1727 Invited

Nonlinear waves in hertzian granular chains: effects of inertial and stiffness heterogeneities

Stephane Job, Francisco Melo, Francisco Santibanez, Franco Tapia

1604 Oral

Experimental research of elastic wave propagation in the one-dimensional medium with Hertz nonlinearity.

Aleksandr Ivanovich Korobov, Yurii Aleksandrovich Brazhkin, Elizaveta Sergeevna Sovetskaya, Ning Wang

1282 Oral

Non-cascade frequency-mixing processes for acoustic waves in unconsolidated granular materials

V. Tournat, C. Inserra, V. Gusev

1079 Invited

Giant nonlinear acoustical fluctuations in granular medium

Igor Esipov

1174 Oral

Probing granular compaction by nonlinear acoustic methods

Claude Inserra, Vincent Tournat, Bernard Castagnède, Vitalyi Gusev

1020 Oral

Transitional behaviour of nonlinear acoustics in a dense granular packing: from micro-slip to micro-sliding at the grain contacts

Th. Brunet, X. Jia, P.A. Johnson

1077 Invited

Experiments on nonlinear acoustic detection of objects buried in sand

Keith Attenborough, Qin Qin

1752 Oral

Acoustic waves in granular materials

O. Mouraille, S. Luding

1376 Oral

Nonlinear effects in acoustic modes propagation along the free surface of granular media

Xavier Jacob, Vincent Tournat, Vladislav Aleshin, Vitali Gusev

1450 Oral

WAVES PROPAGATION IN STRESSED GRANULAR MATERIALS

Christophe Dano

1455 Poster

Relationship of rock Velocity changes with confining pressure

Hao Chen, XiuMing Wang, Hailan Zhang

1705 Poster

Imaging B/A – sound velocity image

Mirza Pasovic, Nico de Jong, Ton van der Steen, Christian Cachard, Olivier Basset

1592 Poster

Influence of pore size on boundary conditions at the interface between a fluid and a poroelastic solid.

S. de la Fuente Blanco, T. E. Gómez Álvarez-Arenas

1181 Poster

Determination of Dynamic Elastic Constants in Granites Using Through-Transmission A-Scan and Resonance-Based Ultrasonic Technique

Luis Mariano Del Río, Felicísima López, Beatriz Calleja, M^a Isabel Mota, Juan José Tejado, Israel González, José Luis San Emeterio, Antonio Ramos

1600 Poster

Parametric evaluation for the design of wide-band air-coupled piezoelectric transducers.

A. Ruiz Toledo, T. E. Gómez Álvarez-Arenas

1596 Poster

Study of the apparent tortuosity of reticulated foams using phase spectroscopy and air-coupled ultrasound.

T. E. Gómez Álvarez-Arenas, I. González, A. Bazán

1784 Poster

EVALUATION OF THE DAMPING OF A POROUS MEDIUM BY AN ULTRASONIC METHOD AND DYNAMIC SHOCKS

Abdelkader Nour, Mohamed Ouali Si-Chaïb, Rachid Saci, Yvon Chevalier
