

平成 17 年 8 月 26 日

応用物理学会北海道支部
会員各位

応用物理学会北海道支部

講演会のお知らせ

下記講演会を開催いたしますので、多数ご参加下さいますようご案内申し上げます。

演題：Emerging methods in nonlinear acoustics of micro-inhomogeneous materials

講師：Vitalyi Gusev 氏

(Professor, University du Maine, Le Mans, France)

日時：平成 17 年 9 月 15 日 (木) 15:00 ~ 16:00

場所：北海道大学大学院工学研究科・応用物理学専攻会議室 (A3-62)

主催：応用物理学会北海道支部

講演の要旨

Some new methods for non-destructive evaluation of materials and structures based on unconventional nonlinear acoustic effects are described. Most of them are tightly related to non-classical acoustic nonlinearities of materials containing cracks and interface contacts.

In particular, the experimental observations of the effects of the inter-wave modulation transfer (Luxembuurg-Gorky effect), of self-induced dynamic hysteresis, and of self-modulation of acoustic waves are presented. The observations in unconsolidated granular materials of the sub-harmonic excitation, of the harmonics excitation accompanied by acoustic mode conversion, and the nonlinear dilatancy are also reviewed.

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