

平成 17 年 8 月 22 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：Elastodynamic Green's Functions of Solids: their calculation, measurement and application to Materials characterisation and NDT

講師：A. G. Every 氏

(School of Physics, University of the Witwatersrand, South Africa)

日時：平成 17 年 9 月 9 日（金） 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

This talk will be concerned with the elastodynamic Green's functions of anisotropic solids, how they are calculated, the various methods by which they can be measured and their applications to materials characterization and non-destructive testing. The particular Green's functions and applications that will be discussed are:

- (1) the displacement response of an infinite solid to a suddenly applied point force, and its application to focused probe ultrasonic scans, laser ultrasound measurements, phonon imaging and capillary fracture waveforms.
- (2) the displacement response of an infinite solid to a time harmonic point force, and its application to transmission acoustic microscopy.
- (3) the surface displacement response of a semi-infinite solid to a time harmonic and spatially periodic surface force, and its application to the surface Brillouin scattering.

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