

平成 19 年 3 月 5 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

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演題：Surface acoustic wave devices

講師：Sylvain Ballandras 氏

(FEMTO-ST, Besancon, France)

日時：平成 19 年 3 月 9 日 (金) 10:00 ~ 11:00

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 室

主催：応用物理学会北海道支部

講演の要旨

The mobile phone industry's need for small and high frequency filtering devices has created a strong interest in innovative acoustic designs for such filters. To bypass the drawbacks of formerly-used technical solutions while maintaining standard manufacturing processes, the use of materials possessing a high surface acoustic wave velocity has become necessary. This can be achieved using layered structures or novel piezoelectric substrates. I review in this talk recent developments in this field and give a general overview of the state of the art in surface acoustic wave devices. In addition, I will discuss the fundamentals of surface acoustic wave devices from a novice's point of view and point out interesting aspects of surface acoustic wave physics as applied to one-dimensional phononic structures.

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