

The generated electrical signal of piezoelectric sensor by a single pulse

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The objective of this study was to study the generated electrical signal of piezoelectric sensors patched on the various samples by using one single pulse. Piezoelectric sensors used in this study were the commercial piezoelectric buzzers which are PZT ceramic disk of 20 mm with brass plate of 27 mm in diameter. The generated electrical signals of piezoelectric sensors from aluminum plate, acrylic plate and wood plate were compared in this study. The experimental result is expected to explain physical mechanism for structural health monitoring application.

Author: Mr JIRUNGNIMITSAKUL, Sumit (Department of Physics and Materials Science, Chiang Mai University, Chiang Mai, 50000, Thailand)

Co-authors: Dr LIMPICHAIPANIT, Apichart (Department of Physics and Materials Science, Chiang Mai University, Chiang Mai, 50000, Thailand); Dr NGAMJARUJANA, Athipong (Department of Physics and Materials Science, Chiang Mai University, Chiang Mai, 50000, Thailand)

Presenter: Mr JIRUNGNIMITSAKUL, Sumit (Department of Physics and Materials Science, Chiang Mai University, Chiang Mai, 50000, Thailand)

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