



Recent Advances of Ultrasonic Testing in Materials

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Message from the Guest Editors

Dear Colleagues,

This Special Issue is about ultrasonic non-destructive testing and the evaluation applied in various research areas and practical fields. In particular, the Special Issue is to share the recent advances in finding defects in high-engineering application materials, such as titanium, Inconel, composite, dissimilar metal welds, TBC coating, etc. In addition, this Special Issue also intends to share the recent advances in ultrasonic nondestructive evaluation of the properties of those materials. Especially, we encourage you to share your new approaches for inspecting defects that are difficult to detect using currently available techniques in the industrial fields. Those problematic defects would include surface micro cracks and IGSCC (intergranular stress corrosion cracking), etc.

We certainly welcome your new approaches using advanced sensors, such as IDT Sensor, EMAT, and air-coupled transducer. We especially welcome your cutting-edge techniques using robust signal processing and interpretation tools, such as neural networks and expert system.

We look forward to your participation and your expertise from academic and industrial fields.





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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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