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Vibration Analysis for Structural Health Monitoring

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Deadline for manuscript submissions: closed (30 June 2023)

Message from the Guest Editor

In recent years, condition monitoring (CM), fault diagnosis, and the prognosis of structures and machines have become topics of increasing concern. Early fault detection can help to avoid risks of damage and thus save expensive emergency repair costs. Vibration is considered the most commonly measured parameter in the CM of structures, and it is extensively used in various industrial applications However, interpretation of results from vibration analysis requires investigation from various aspects, and therefore, research in this area faces multiple challenges. Many novel and interesting CM methods have been developed in recent years; however, the challenge will always remain of producing a CM system capable of detecting and identifying the presence of a fault at ever earlier stages of its development. The need to maximise equipment and lifetime reliability requires the integration of reliability condition monitoring (CM) and maintenance precision practices.



mdpi.com/si/148811







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Message from the Editor-in-Chief

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