

Sources of Uncertainty and Error in the Measurement and Prediction of Transportation Noise

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This paper will present an overview of acoustic issues in the assessment and prediction of noise generated by road and rail traffic and aircraft. Significant recent progress has been made in the understanding of sound propagation from transportation sources, their sound generation characteristics and the limitations of current prediction models and measurement techniques. These recent findings point to ways to improve existing prediction algorithms, highlight areas of prediction difficulty and possible approaches to improve measurement accuracy and mitigation measures. Sound propagation modelling will be discussed in general together with specific discussion of road, rail and aircraft noise with case studies.

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