

**Ground vibration study (Underground railway transport System) : Modelling approach, challenges and findings.**

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Train induced vibrations have been getting a lot of attention lately as modern transportation system expands. A study on the same was carried out by Witteveen+Bos recently using DIANA finite element package. Therefore we would like to share our modelling approach(es), challenges, findings, shortcomings and future recommendations. The presentation will focus upon different aspects of time and frequency domain methods, simulating infinite domain lengths using PML as well as Liesmer Kuhlmeier layers and using embedded beam elements.