SPRINGER LINK

2 Log in

三 Menu

Search

Cart



Earthquakes and Structures pp 201–212

<u>Home</u> > <u>Earthquakes and Structures</u> > Conference paper

Metro Train-Induced Vibration Measurement on Buildings

Conference paper | First On

864 Accesses **2** Citations

Part of the <u>Lecture Notes in (LNCE, volume 188)</u>

Yogendra Singh

Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, 247667, India

View author publications

You can also search for this author in PubMed Google Scholar

Abstract

Vibrations in four buildings located at different positions along the Delhi Metro Rail Corporation (DMRC) network have been measured and reported. Vibrations developed due to the passage of metro trains through tunnels located at a depth up to 30 m from the ground level were measured on the considered buildings at different floor levels. To interpret the effect of vibrations on buildings, different vibration parameters, viz. Peak Ground Acceleration (PGA), Peak Ground Velocity (PGV) and