

**Z. Kacprzyk, P. Czumaj**, *Modelling of Multi-Storey Frame Interacting with Rigid Core of the Building*, IOP Conference Series: Materials Science and Engineering, Volume 661, Number 1

### *Abstract*

Impact of bar incompressibility assumption on frames has been analysed in this paper. It has been shown, that in some cases of high buildings, where rigid core is surrounded by set of bars, assumption of columns incompressibility is justified. With compressible bars, significant bending moments occurs on beams connected to core of the building.

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