

Interactive comment on “Load-resistance analysis: An alternative approach to tsunami damage assessment applied to the 2011 Great East Japan tsunami” by Anawat Suppasri et al.

Ceren Ozer Sozdinler (Referee)

cerenozr@cc.kagawa-u.ac.jp

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This manuscript presents a new method for tsunami damage assessment for buildings in inundation area due to 2011 Great East Japan Tsunami. It is proposed as an alternative approach for the buildings located where fragility curves (previously developed by the main author and this team) do not exist. Therefore, it seems as a one-step further approach of previous studies on tsunami damage. The manuscript has proper state of the art observational and numerical approach for tsunami modelling, damage force calculation and load-resistance analysis. The outcomes of this study would provide clear indications for tsunami hazard and risk assessment in Japan and for further

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studies that can be applied to other regions in the world. The language of manuscript is so clear and very easy to understand. There is no need for proof-reading. As a result of above, I believe that this paper would be a significant contribution for the tsunami research community. I think the manuscript would be in its best version with minor revision and some further clarifications. I am listing my suggestions for revision and small typo correction in the attached document in details.

Please also note the supplement to this comment:

<https://www.nat-hazards-earth-syst-sci-discuss.net/nhess-2019-71/nhess-2019-71-RC1-supplement.pdf>

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