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Chapters 1,3

Rabiepour, M., Zhou, C., Chase, J.G., Rodgers, G.W. and Xu, C.

Structural health monitoring for pinching structures via hysteretic mechanics models

2022, Structural Engineering and Mechanics 82(2): 245-258.

Chapters 1,4

Rabiepour, M., Zhou, C., Rodgers, G.W. and Chase, J.G.

Real-world application of hysteresis loop analysis for stiffness identification of an instrumented building across multiple seismic events

2022, Journal of Building Engineering: 103524.

Chapters 1,5

Rabiepour, M., Zhou, C. and Chase, J.G.

Evaluation of Pinching Effects on a Real Concrete Building Seismic Performance by Re-simulating Displacement Responses Using HLA SHM Results

2021, Journal of Performance of Constructed Facilities, 35: 04021024.

Please detail the nature and extent (%) of contribution by the candidate:

The contribution of the candidate to the publication amounts to ~80% based on the overall time and effort dedicated to the final outcome. The candidate developed, implemented and led all research work. All analytical work was developed and performed by the candidate in consultation with the supervisors.

Certification by Co-authors:

If there is more than one co-author then a single co-author can sign on behalf of all

The undersigned certifies that:

- The above statement correctly reflects the nature and extent of the Doctoral candidate's contribution to this co-authored work
- In cases where the candidate was the lead author of the co-authored work he or she wrote the text

Name: **JG Chase** Signature: **J. Geoffrey Chase** Date: **17 May 2022**