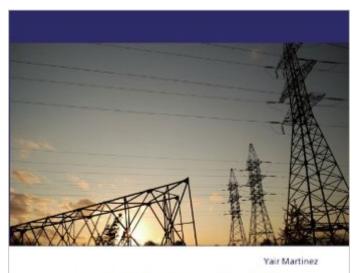# Model Fitting Of A Bilinear Material With Genetic Algorithm: With Matlab And Opensees

Yair Martinez

Model fitting of a bilinear material with genetic algorithm

with Matlab and Opensees

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Synopsis

Reliable collapse assessment of structural systems under earthquake loading requires analytical models that are able to capture component deterioration in strength and stiffness of the material that is going to be used in the structure of the building, bridge or element. The quantification of important parameters that affect the cyclic force- displacement relationship in beams is crucial to the development of software capable to calculate structures under different loads scenarios such as earthquakes.

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