

# DEM Simulation of Shear Band Induced Foundation Rotation Due to the Reverse Fault - Shallow Foundation Interaction in Different Soil Densities

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## Appendix A: Supplementary Figures

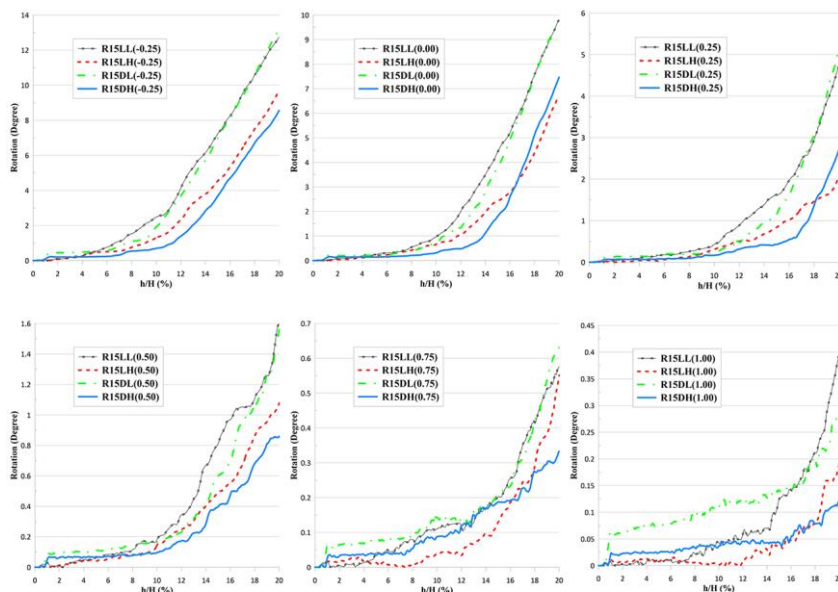
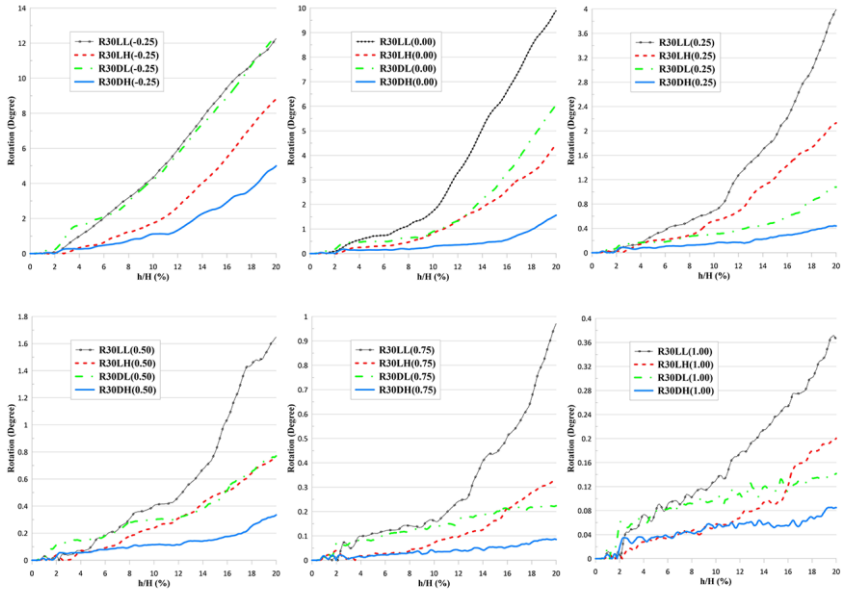


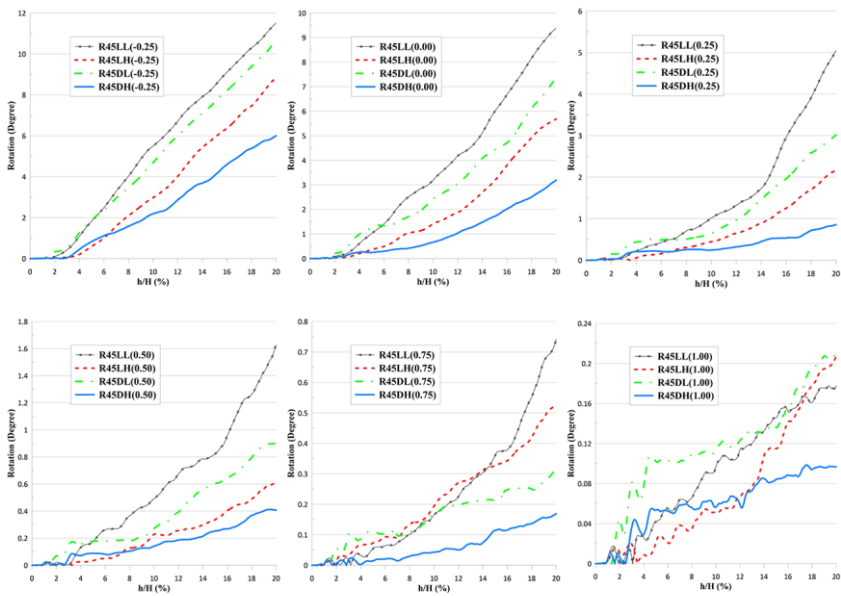
Figure S.1. Rotation of the shallow foundation during faulting in the same s/b values with  $\beta = 15^\circ$  and different soil and foundation types



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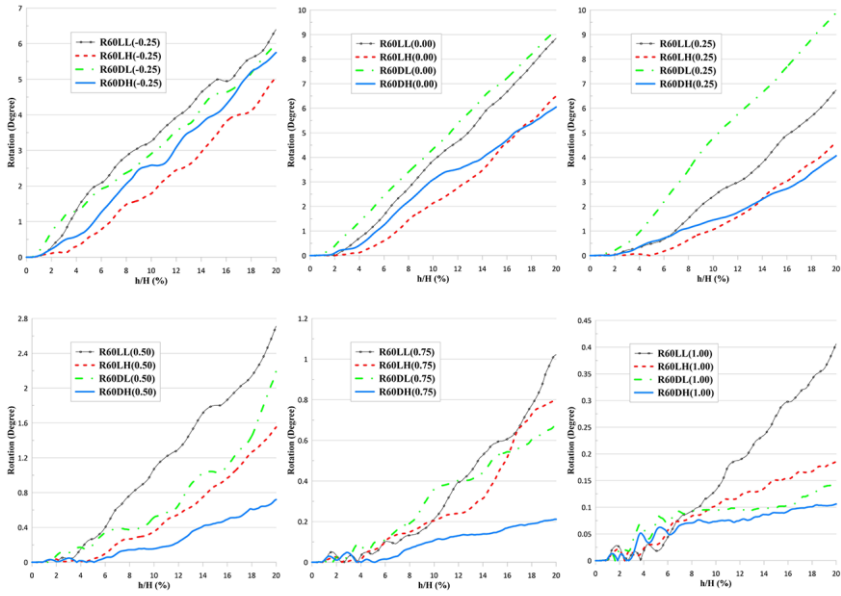
Figure S.2. Rotation of the shallow foundation during faulting in the same  $s/b$  values with  $\beta = 30^\circ$  and different soil and foundation types



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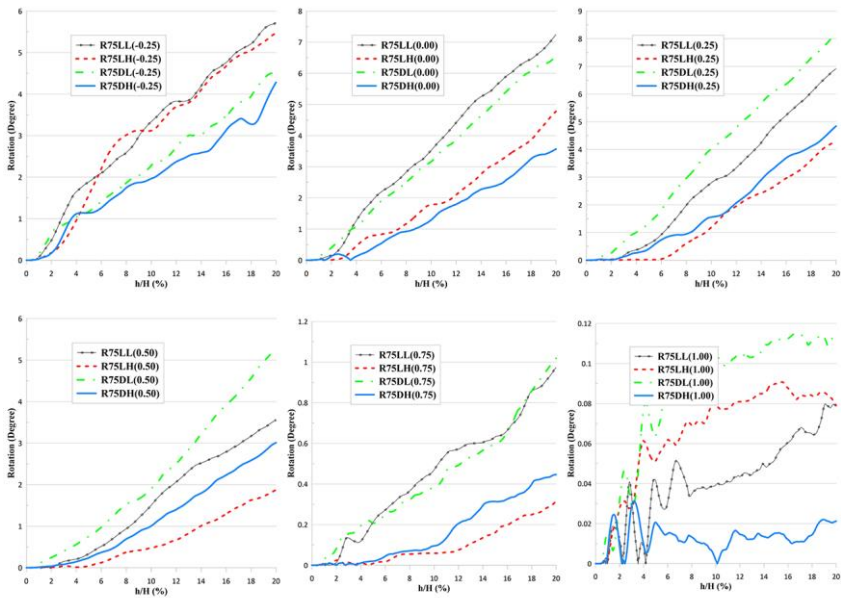
Figure S.3. Rotation of the shallow foundation during faulting in the same  $s/b$  values with  $\beta = 45^\circ$  and different soil and foundation types



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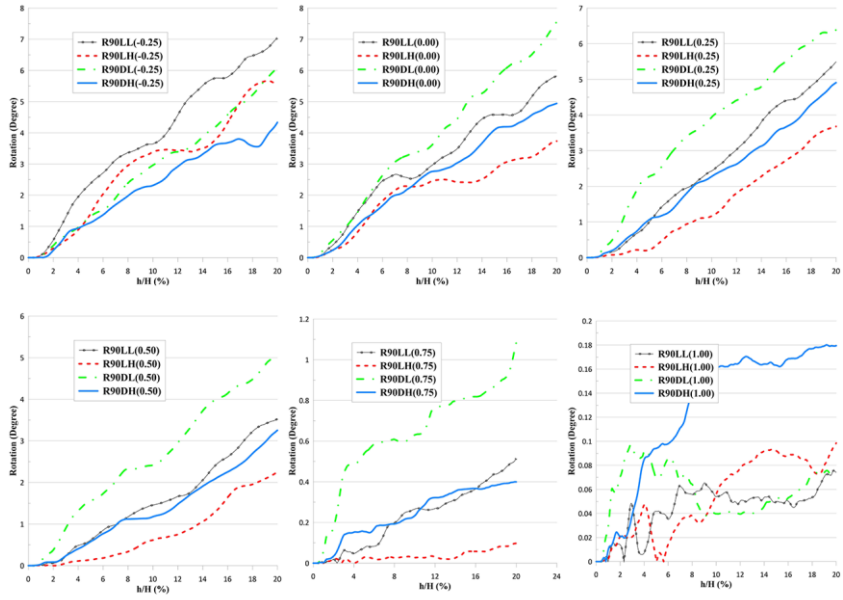
Figure S.4. Rotation of the shallow foundation during faulting in the same  $s/b$  values with  $\beta = 60^\circ$  and different soil and foundation types



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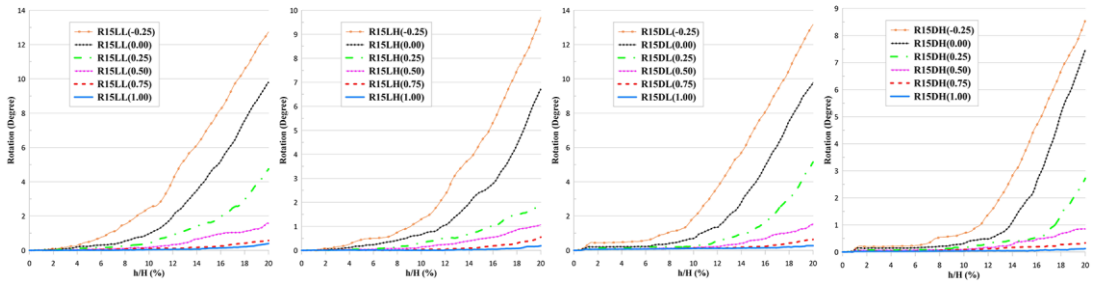
Figure S.5. Rotation of the shallow foundation during faulting in the same  $s/b$  values with  $\beta = 75^\circ$  and different soil and foundation types



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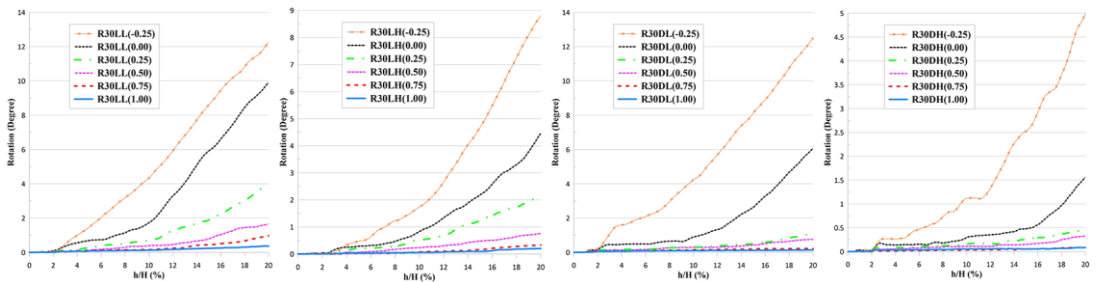
Figure S.6. Rotation of the shallow foundation during faulting in the same s/b values with  $\beta = 90^\circ$  and different soil and foundation types



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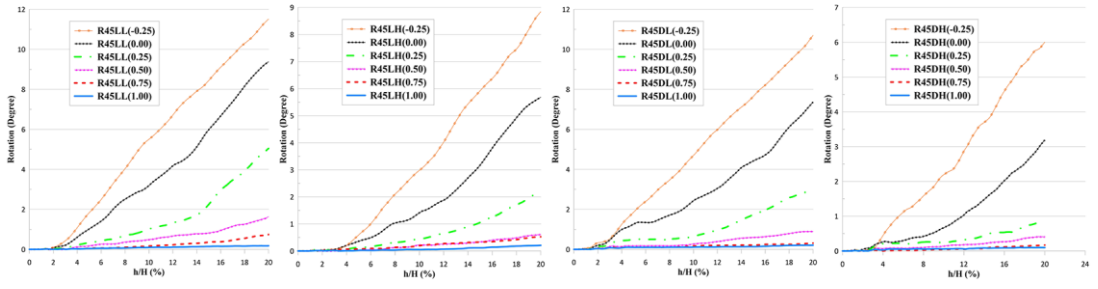
Figure S.7. Rotation of the shallow foundation during faulting in the same soil and foundation types with  $\beta = 15^\circ$  and different s/b values



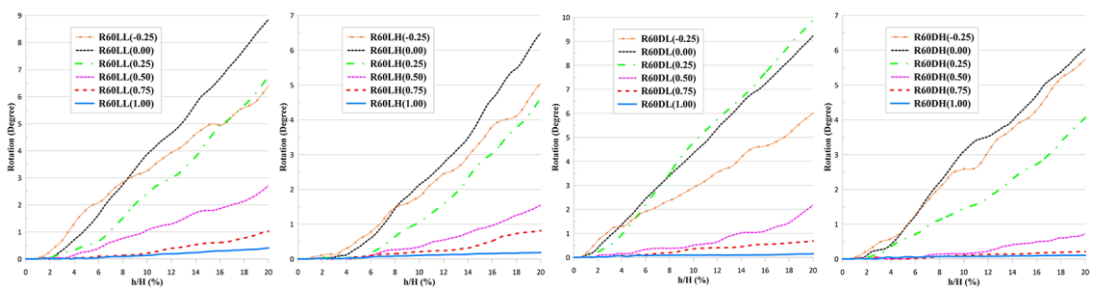
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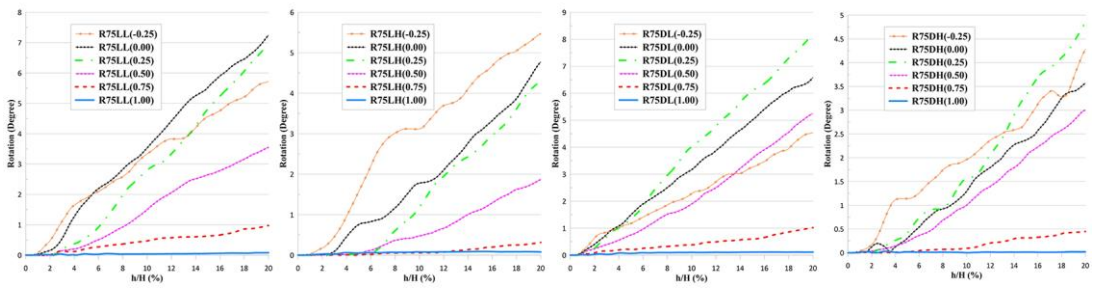
Figure S.8. Rotation of the shallow foundation during faulting in the same soil and foundation types with  $\beta = 30^\circ$  and different s/b values



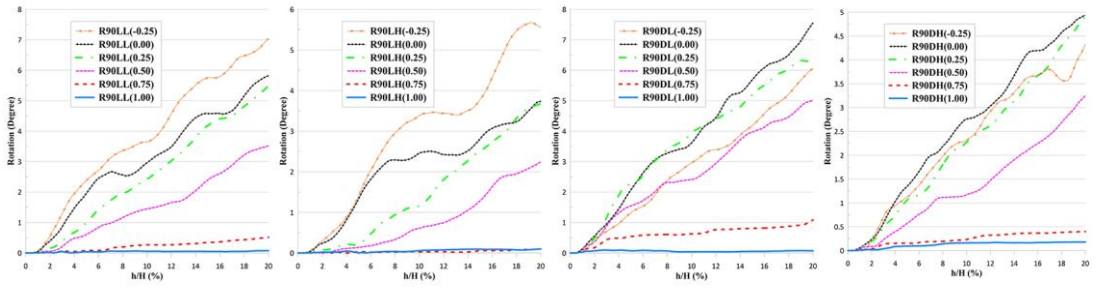
37  
38 Figure S.9. Rotation of the shallow foundation during faulting in the same soil and foundation types with  $\beta = 45^\circ$  and different  $s/b$  values



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40 Figure S.10. Rotation of the shallow foundation during faulting in the same soil and foundation types with  $\beta = 60^\circ$  and different  $s/b$  values



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42 Figure S.11. Rotation of the shallow foundation during faulting in the same soil and foundation types with  $\beta = 75^\circ$  and different  $s/b$  values



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44 Figure S.12. Rotation of the shallow foundation during faulting in the same soil and foundation types with  $\beta = 90^\circ$  and different  $s/b$  values