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Shaped Charge Penetrator into Soil–Concrete Double-Layered Target

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## Highlights

- We present an analytical model for shaped charge penetrator into soil–concrete double-layered target.
- The influence of the soil/concrete interface of a shaped charge penetrator in a soil–concrete double-layered target is discussed.
- The reflection and transmission at the soil/concrete interface which remarkably reduce penetration velocity have a significant effect on penetration depth.
- Despite the smaller density and strength of soil compared with concrete, the penetration depth in the concrete target was greater than that in the soil–concrete double-layered target
- The predicted penetration depth via theoretical analysis was in good agreement with experimental results.

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