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Penetration trajectory of concrete targets by ogived steel projectiles - experiments and simulations

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Highlights

- A series of scaled penetration experiments were conducted in this paper and the three-dimensional flight attitudes of the projectile was recorded with a designed high-speed camera system.
- Damage assessment was made on the projectiles and the concrete targets after penetration, respectively.
- Simulations of the penetration test are done with the commercial software LS-DYNA which has simulated the three-dimensional penetration properly.
- The fast simulation code PENE3D was proposed and used to simulate the three-dimensional penetration efficiently with reasonable accuracy.

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