
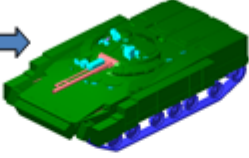



### Single Shot Kill Probability




Original Target




UniVeMo Target Model




Damaged Components




Protected Area



PK-Plot



Aimpoint Optimization

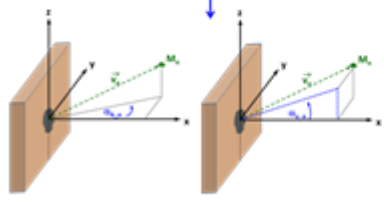


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### Secondary Debris Methodology

```

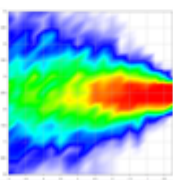
graph TD
    A[Determination of the mass M_n of the debris n from the Held mass distribution] --> B{If M_n > M_max then}
    B --> C[Else exit]
    B --> D[Determination of the launch velocity v_n of the debris n from an inverse cumulative velocity distribution by random number]
    D --> E[Determination of the launch angles alpha_n and alpha_n of the debris n from an inverse cumulative velocity distribution by random number]
    E --> F[Diagram of debris launch angles]
        
```

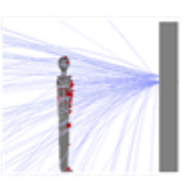


$$M(n) = M_{gzz} \cdot \left[ e^{-S(\epsilon-1)^2} - e^{-S(\epsilon)^2} \right]$$

$$v_n = \left[ \frac{1}{\alpha_v} \cdot \text{LN} \left( \frac{1}{1 - (1 - e^{-S \cdot v_{max}^2}) \cdot RN} \right) \right]^{1/\alpha_v}$$

$$\alpha = -\frac{1}{\alpha_\alpha} \cdot \text{LN} \left[ \frac{1}{RN} - 1 \right]$$





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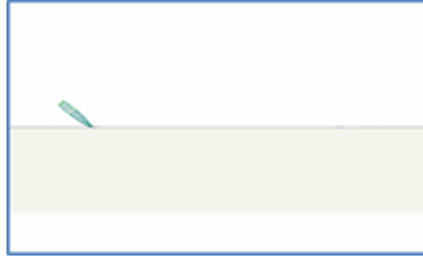
## Test Assessment

### Soil Penetration

Kinetic Energy will cause Penetration into Soil for Delayed Fuze Settings

Simulation of Penetration Path

Location of Detonation Point derived from Penetration Path and Delay Time



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