

Accepted Manuscript

A comparative investigation on motion model of rifle bullet penetration into gelatin

Kun Liu , Jianguo Ning , Zhilin Wu , Huilan Ren , Mingfei Jiang

PII: S0734-743X(16)30569-3
DOI: [10.1016/j.ijimpeng.2016.11.010](https://doi.org/10.1016/j.ijimpeng.2016.11.010)
Reference: IE 2777



To appear in: *International Journal of Impact Engineering*

Received date: 29 August 2016
Revised date: 14 November 2016
Accepted date: 17 November 2016

Please cite this article as: Kun Liu , Jianguo Ning , Zhilin Wu , Huilan Ren , Mingfei Jiang , A comparative investigation on motion model of rifle bullet penetration into gelatin, *International Journal of Impact Engineering* (2016), doi: [10.1016/j.ijimpeng.2016.11.010](https://doi.org/10.1016/j.ijimpeng.2016.11.010)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- A motion model that considers both horizontal and normal directions is proposed.
- The proposed model is based on the motion characteristics of a rifle bullet in gelatin and considers the properties of gelatin and the difference between the attack and yaw angles.
- The model considers the effect of lift and yaw damping moment.
- The model parameters are associated with the bullet's design parameters.

Download English Version:

<https://daneshyari.com/en/article/5015570>

Download Persian Version:

<https://daneshyari.com/article/5015570>

[Daneshyari.com](https://daneshyari.com)