

Accepted Manuscript

A Theoretical Model of Non-deforming Bullets Penetrating Ballistic Gelatin

G.L. Mo , Z.X. Li , Z.L. Wu

PII: S0734-743X(17)30266-X
DOI: [10.1016/j.ijimpeng.2017.12.004](https://doi.org/10.1016/j.ijimpeng.2017.12.004)
Reference: IE 3034



To appear in: *International Journal of Impact Engineering*

Received date: 1 April 2017
Revised date: 6 December 2017
Accepted date: 8 December 2017

Please cite this article as: G.L. Mo , Z.X. Li , Z.L. Wu , A Theoretical Model of Non-deforming Bullets Penetrating Ballistic Gelatin, *International Journal of Impact Engineering* (2017), doi: [10.1016/j.ijimpeng.2017.12.004](https://doi.org/10.1016/j.ijimpeng.2017.12.004)

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 new assumption of the pressure on the surface of the tumbling bullet is proposed.
- Correlations between the force coefficients, the moment coefficient and the attack angle, the shape parameters are revealed analytically.
- Initial angular velocities of the bullet are taken into account when solving the proposed ballistic model.
- Spatial motions of the 7.62mm rifle bullet penetrating ballistic are simulated with the ballistic model.

Download English Version:

<https://daneshyari.com/en/article/7172971>

Download Persian Version:

<https://daneshyari.com/article/7172971>

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