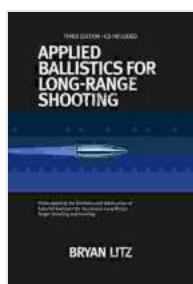


Understanding the Elements and Application of External Ballistics for Long-Range Shooting

External ballistics is the study of the motion of a projectile after it has left the barrel of a firearm. It is a complex field that takes into account a number of factors, including the projectile's weight, shape, velocity, and the effects of gravity, wind, and air resistance.



Applied Ballistics For Long-Range Shooting 3rd Edition: Understanding the Elements and Application of External Ballistics for Successful Long-Range Target Shooting and Hunting by Bryan Litz

★★★★☆ 4.8 out of 5

Language	: English
File size	: 30970 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
X-Ray	: Enabled
Word Wise	: Enabled
Print length	: 549 pages
Lending	: Enabled



Understanding external ballistics is essential for long-range shooting, as it allows shooters to accurately predict the trajectory of their projectiles and make the necessary adjustments to their aim.

The Elements of External Ballistics

The four main elements of external ballistics are:

* **Gravity:** Gravity is the force that pulls objects towards the center of the Earth. It is the primary factor that determines the trajectory of a projectile. *

Wind: Wind is the movement of air. It can have a significant effect on the trajectory of a projectile, causing it to drift off course. * **Air resistance:** Air resistance is the force that opposes the motion of an object through the air. It is caused by the interaction of the projectile with the air molecules. *

Projectile characteristics: The weight, shape, and velocity of a projectile all affect its trajectory. Heavier projectiles are less affected by gravity and wind, while faster projectiles are less affected by air resistance.

The Application of External Ballistics

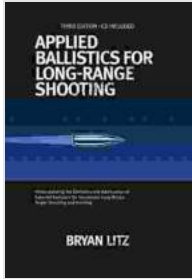
External ballistics is used in a variety of applications, including:

* **Long-range shooting:** External ballistics is essential for long-range shooting, as it allows shooters to accurately predict the trajectory of their projectiles and make the necessary adjustments to their aim. * **Firearms**

design: External ballistics is used to design firearms that produce the desired trajectory for a given projectile. * **Military ballistics:** External ballistics is used to develop weapons and ammunition for military use. *

Space exploration: External ballistics is used to design spacecraft and launch vehicles.

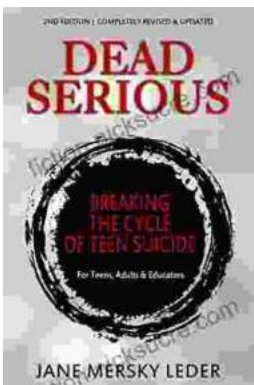
External ballistics is a complex field that plays a vital role in long-range shooting, firearms design, military ballistics, and space exploration. By understanding the elements and application of external ballistics, shooters can improve their accuracy and make more informed decisions about their firearms and ammunition.



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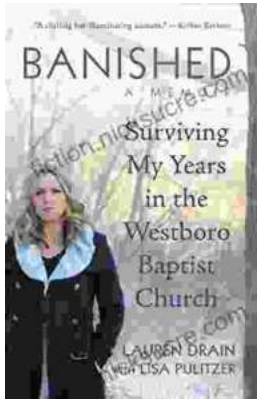
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