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New rifle, bigger bullets: Inside the Army's plan to ditch ...

compared to the current standard M855 5.56mm ammunition, then to each other, to determine the best overall recommended design. Finally, this thesis will discuss the implications of the recommended design, and suggestions for future study. 15. SUBJECT TERMS Small arms ammunition, lightweight ammunition, caseless ammunition, 5.56mm ammunition, U ...

Future Firearms Ammunition Technology 003: Sabots ...

□ Future small arms technologies will blur established “lanes” within the S&T and PEO/PM community □ Emerging technologies promise to radically change the nature of how we define the

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relationship between Soldiers and small arms. In particular, robotic platforms and exoskeletons could provide disruptive

NATO Small Arms Ammunition Standardization

Maintaining Overmatch and Standardization for Future NATO Small Arms David (Yi Le) Zhou . In Memory of Jim R. Schatz (1959- ... ammunition capabilities for future small arms. 4 • A caliber study conducted by US Army ... ammunition design complied with its respective STANAG and the M- C MOPI.

Maintaining Overmatch and Standardization for Future NATO ...

“Our CT weapons and ammunition offer the growth path to a true next-generation small arms weapon for U.S. warfighters, including increased lethality at longer ranges, while also delivering...

SHOULD THE U.S. ARMY ADOPT NEW 5.56MM AMMUNITION CARTRIDGE ...

Small arms ammunition is primarily

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cartridge-based. Described in military terms as a 'round' of ammunition, it comprises of a cartridge case, bullet, propellant and primer. Small arms ammunition varies in size or caliber, and contemporary military ammunition largely follows standards originally set by NATO or the former Warsaw Pact.

Is this the Future of Military Small Arms?

FUTURE INFANTRY SMALL ARMS ... There is a direct link between barrel length and ammunition design: to achieve any specified ballistics with a short barrel rather than a long one needs a more powerful cartridge to accelerate the bullet more rapidly; this will be bigger and heavier, and generate more pressure, barrel heat and wear, plus more ...

MILITARY SMALL ARMS: Design Principles and Operating ...

Nearly all small arms ammunition cases are of brass alloy. Some use aluminum,

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steel, or plastic, but the brass case is most popular and easiest to manufacture. The design of the case is determined by the firearm in which the ammunition is used.

FUTURE INFANTRY SMALL ARMS - quarryhs.co.uk

ammunition STANAG will require “re-adoption of that STANAG by each country and this process is too complicated to do all over again” for an existing STANAG.16 Regarding NATO standardization of a future US small arms caliber, it is unlikely that there would be major obstacles to implementing a future ammunition STANAG with more

The Army Is Eying A New, More Lethal ... - Task & Purpose

MILITARY SMALL ARMS: Design Principles and Operating Methods [Derek Allsop] on Amazon.com. *FREE* shipping on qualifying offers. This work deals with the classification, construction, design

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and theory of different kinds of small arms (hand-firing weapons)

This Gun Paired With New 6.8mm Ammunition Could Be The ...

Future Firearms Ammunition Technology 003: Sabots – Performance-Enhancing Shoes for Your Bullets. ... afv, assault rifle, ballistics, bullet, design, Education, experimental, future, projectile, ... One of the problems of small arms ammunition is that of swept volume. That is, the most ballistically efficient projectiles are the longest and ...

Envisioning the Deep Future of Small Arms 2022-2042

A new lightweight polymer-cased ammunition system is being developed that could bring the U.S. Military's small arms into the 21st century. Is this the future for the military (and possibly sportsmen)? A company called Textron Systems has developed and is now testing a new kind of ammunition designed to reduce a combat soldier's

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Future Small Arms Ammunition Design

slides included here were those shown at the NDIA Small Arms Forum in June 2015. The text relates to these, with some additions. In this presentation I intend to focus on just two aspects of small arms ammunition design: bullet shape and barrel length. These are both very basic issues, so I

Small Arms Survey - Ammunition

So with that in mind, we have a copy of the US Army Weapons Command's 1968 "Technical Notes: Small Arms Weapons Design": Technical Notes on Small Arms Design (English, 1968) If you are curious to learn about recoil forces, gas system pressures and timing, bolt lug stresses, headspacing, and other detailed technical aspects of firearms ...

Soldier weapons: Taking the long

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Jane's Page 1 of 8 International Defence Review Design dilemma: the challenge of future small arms and ammunition development [Content preview - Subscribe to Jane's International Defence ...

Small Arms Design Literature - Forgotten Weapons

"True Velocity's 6.8mm composite case design produces a level of performance, consistency and efficiency never before seen in small-arms ammunition," Chris Tedford, president and CEO of True ...

Ammo Firm Unveils 6.8mm Cartridge for Army's Next-Gen ...

The Army's chief of staff recently made a bold promise that future soldiers will be armed with weapons capable of delivering far greater lethality than any existing small arms.

Jane's

'Better option' Work on the new round

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began in recent years, Bohannon said, and much of the next steps in developing both the round and rifle will be driven by the Small Arms Ammunition

...

Is Polymer Ammunition the Future of Military Small Arms?

The Lightweight Small Arms Technologies (LSAT) program is funded by the U.S. Joint Service Small Arms Program, with the goal of significantly reducing the weight of small arms and their ammunition. Following a series of military programs to investigate advances in small arms (SPIW , Future Rifle, ACR , OICW), the LSAT program is the US military 's latest project to replace existing US small arms.

Future Small Arms & Ammunition Design: Bullet Shape and ...

Current small arms tech has largely plateaued, resulting in weapons that incrementally better than past designs. Today's M4 carbine, for example, is

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merely a derivative of the original M16 rifle....

Lightweight Small Arms Technologies - Wikipedia

Soldier weapons: Taking the long view. ... The M2A1 includes modern features and design improvements that make it easier and safer to use. ... the Army is currently pursuing its Small Arms ...