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# Their Arrows Will Darken The Sun: The Evolution And Science Of Ballistics



## Synopsis

The science of ballistics has a long history and starts with one question: How does a projectile move through the air? Even before physicists worked that one out, military engineers had been tinkering with ballistic devices for centuries. The trebuchet of the Middle Ages has given way to rocket power, and the science of ballistics has evolved to match the technology. Mark Denny's survey covers this dynamic subject from prehistory to the weapons of tomorrow. Taking the bang-whiz-thud approach, Denny first talks about internal ballistics -- Bang! -- from before gunpowder to the development of modern firearms. External ballistics -- Whiz! -- are next, with discussions about short- and long-range trajectories. Denny's lesson ends with a Thud! -- an explanation of terminal ballistics. Throughout, Denny conveys applicable physics principles in a way that will appeal to technology buffs and ballistics enthusiasts alike. His fun and factual explanations are free of complicated equations; notes cover the key aspects of ballistics physics for the more technically inclined. Denny has perfected this engaging balance of science and story. For study or hobby, *Their Arrows Will Darken the Sun* is an entertaining guide to the world of ballistics. Praise for Mark Denny "For a scientist, Denny's approach is delightfully down to earth." -- *The Age* "Denny's writing is anything but dry and boring. He adeptly explains complex subject matter and does so with relatively simple language and minimal use of symbolic notation." -- *Bat Research News*

## Book Information

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## Customer Reviews

Unfortunately, this book does not appear to have been carefully fact-checked or edited. It is a nifty topic and written in an engaging style. But Dr. Denny presents at least two factual errors in Chapter 3, one which describes the development of modern firearms. There is an awful lot in this book that is very interesting that I do not have the background experience and training to evaluate. But I \*do\* know a good bit about modern handguns. To most trained handgunners, the two factual errors I note below might be the equivalent of getting the wrong answer on an American history test question similar to, "Who was the first President of the United States?" I know that theoretical physics is Dr. Denny's academic discipline and not firearms or any other history. But he presents information in this book as authoritative and presents himself as a credible authority. Having found these errors calls into question the credibility of other statements he makes throughout the book, even those pertaining to ballistics. After all, conscientious, detailed fact-checking is important for non-fiction book authors, and I think most would agree it should be all the more important when presenting information outside one's area of expertise. So here goes. On page 56, first paragraph, he describes that a person rapid-firing a double-action revolver will, "...repeatedly pull the trigger, which cocks and fires the gun, ejects the spent cartridge and loads the next round, all from the same trigger pull." In fact, double-action revolvers do not automatically eject spent cartridges and load new rounds. The text actually describes the functioning of a semi-automatic pistol, not a revolver. Speaking of semi-automatic pistols, on page 62, second paragraph, Dr.

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