



**THEIR ARROWS
WILL DARKEN
THE SUN**

The Evolution and
Science of Ballistics

MARK DENNY

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

Stuart Ellis-Gorman



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

Their Arrows Will Darken the Sun Mark Denny, 2011-04-29 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

European Military Books and Intellectual Cultures of War in 17th-Century Russia Oleg Rusakovskiy, 2024-09-16 This book discusses the role Western military books and their translations played in 17th century Russia By tracing how these translations were produced distributed and read the study argues that foreign military treatises significantly shaped intellectual culture of the Russian elite It also presents Tsar Peter the Great in a new light not only as a military and political leader but as a devoted book reader and passionate student of military science

Rocket Science Mark Denny, Alan McFadzean, 2019-10-08 This is a book about rocket science what it is and what it does From the earliest fireworks to nuclear powered spacecraft all you would ever want or need to know about the subject is here along with a straightforward explanation of how why and when things work or sometimes don t We begin with the history and workings of early terrestrial rocketry before moving onto the main subject of the book how we get things into space and on occasion back again Entirely math free the chapters weave together innumerable anecdotes real world examples and easy walk throughs to help readers break down the complex physics behind some of humankind s most amazing feats Neither a pure textbook nor a populist space travel tome the book will educate inform and above all entertain anyone intrigued by rocket science

King of Battle: Artillery in World War I, 2016-01-12 In King of Battle Artillery in World War I a distinguished array of authors examines the centrepiece of battle in the Great War artillery Going beyond the usual tables of calibres and ranges the contributors consider the organization and technology of artillery as well as present aspects of training doctrine and other national idiosyncrasies Artillery dominated the battlefields of World War I and forever changed the military doctrine of war No nation that had participated in significant ground combat would blithely assume that morale could ever replace firepower The essays included in this volume explain how twelve countries including all the major combatants handled artillery and how it affected the Great War Contributors include Filippo Cappellano Boyd Dastrup

Edward J Erickson Bruce Gudmundsson James Lyon Sanders Marble Janice E McKenney Dmitre Minchev Andrey Pavlov
Kaushik Roy Cornel and Ioan Scafes John Schindler and David Zabecki *Myths of the Civil War* Scott

Hippensteel,2021-11-15 In the spirit of Robert Adair s cult classic *The Physics of Baseball* here is a book that tackles the long cherished myths of Civil War history and ultimately shatters them based on physics and mathematics At what range was a Civil War sniper lethal Did bullets ever rain like hail Could one ever step across a battlefield by stepping only on bodies and never hard ground How effective were Civil War muskets and rifles How accurate are photographs and paintings In this genre bending work of history Scott Hippensteel puts the tropes of Civil War history under the microscope and says Wait a minute Combining science and history Hippensteel reexamines much that we hold dear about the Civil War and convincingly argues that memoirs and histories have gotten it wrong This is a work of history and science for our era of fake news and for well beyond Readers will never look at the Civil War the same way again *The Medieval Crossbow* Stuart

Ellis-Gorman,2022-07-20 An in depth illustrated history and technical study of this iconic weapon of the Middle Ages The crossbow is an iconic weapon of the Middle Ages and alongside the longbow one of the most effective ranged weapons of the pre gunpowder era Unfortunately despite its general fame it has been decades since an in depth history of the medieval crossbow has been published which is why Stuart Ellis Gorman s detailed accessible and highly illustrated study is so valuable The *Medieval Crossbow* approaches the history of the crossbow from two directions The first is a technical study of the design and construction of the medieval crossbow the many different kinds of crossbows used during the Middle Ages and finally a consideration of the relationship between crossbows and art The second half of the book explores the history of the crossbow from its origins in ancient China to its decline in sixteenth century Europe Along the way it explores the challenges in deciphering the crossbow s early medieval history as well as its prominence in warfare and sport shooting in the High and Later Middle Ages This fascinating book brings together the work of a wide range of accomplished crossbow scholars and incorporates the author s own original research to create an account of the medieval crossbow that will appeal to anyone looking to gain an insight into one of the most important weapons of the Middle Ages **Setting Aside All**

Authority Christopher M. Graney,2015-04-15 *Setting Aside All Authority* is an important account and analysis of seventeenth century scientific arguments against the Copernican system Christopher M Graney challenges the long standing ideas that opponents of the heliocentric ideas of Copernicus and Galileo were primarily motivated by religion or devotion to an outdated intellectual tradition and that they were in continual retreat in the face of telescopic discoveries Graney calls on newly translated works by anti Copernican writers of the time to demonstrate that science not religion played an important and arguably predominant role in the opposition to the Copernican system Anti Copernicans building on the work of the Danish astronomer Tycho Brahe were in fact able to build an increasingly strong scientific case against the heliocentric system at least through the middle of the seventeenth century several decades after the advent of the telescope The scientific case

reached its apogee Graney argues in the 1651 New Almagest of the Italian Jesuit astronomer Giovanni Battista Riccioli who used detailed telescopic observations of stars to construct a powerful scientific argument against Copernicus Setting Aside All Authority includes the first English translation of Monsignor Francesco Ingoli's essay to Galileo disputing the Copernican system on the eve of the Inquisition's condemnation of it in 1616 and excerpts from Riccioli's reports regarding his experiments with falling bodies

Arming the Warship Iver P. Cooper, 2024-11-04 In the 16th century warships engaged at close range sometimes with yards touching and small arms fire and hand to hand combat were at least as important as the great guns As time went on the big guns became more decisive and increased in destructive power range and accuracy This book explores how naval armament armor ballistics and gunnery evolved from the 16th to 20th centuries from a scientific and technological perspective It examines the functional aspects the guns and their distribution on warships the propellants the projectiles and so forth and examines the development of each

Making Sense of Weather and Climate Mark Denny, 2017-01-17 How do meteorologists design forecasts for the next day's the next week's or the next month's weather Are some forecasts more likely to be accurate than others and why Making Sense of Weather and Climate takes readers through key topics in atmospheric physics and presents a cogent view of how weather relates to climate particularly climate change science It is the perfect book for amateur meteorologists and weather enthusiasts and for anyone whose livelihood depends on navigating the weather's twists and turns Making Sense of Weather and Climate begins by explaining the essential mechanics and characteristics of this fascinating science The noted physics author Mark Denny also defines the crucial differences between weather and climate and then develops from this basic knowledge a sophisticated yet clear portrait of their relation Throughout Denny elaborates on the role of weather forecasting in guiding politics and other aspects of human civilization He also follows forecasting's effect on the economy Denny's exploration of the science and history of a phenomenon we have long tried to master makes this book a unique companion for anyone who wants a complete picture of the environment's individual societal and planetary impact

The Science of Navigation Mark Denny, 2012-06-29 In today's world of online maps and travel directions delivered wirelessly to hand-held devices getting from place to place requires little thought from most of us which is a good thing since accurate navigation can be tricky Get your bearings with Mark Denny an expert at explaining scientific concepts in non-technical language in this all-encompassing look at the history and science of navigation Denny's tour kicks off with key facts about the earth and how its physical properties affect travel He discusses cartography and early mapmakers revealing fascinating tidbits such as how changes over time of the direction of true north as well as of magnetic north impacted navigation Denny details the evolution of navigation from the days of coastal piloting to GPS and other modern-day technologies He explains the scientific breakthroughs in accessible amusing terms and provides an insightful look at their effects on societies cultures and human advancement Throughout Denny frames the long history of navigation with amazing tales of such people as Pytheas an

ancient Greek navigator and Sir Francis Drake and of such discoveries as the magnetic compass and radio direction finding Whether you have an interest in orienteering and geocaching or want to know more about the critical role navigation has played in human survival and progress since ancient people learned to use lodestones The Science of Navigation is for you With it you ll finally understand the why of wayfinding **Gliding for Gold** Mark Denny,2011-09-30 A physics driven exploration of sports played on ice and snow that is truly fun and informative Gliding for Gold is the perfect primer for understanding the science behind cold weather athletics **Ballistics** Barbara B. Rollins,Michael Dahl,2004 Describes the science of ballistics including the types of weapons and ammunition used in crimes clues guns and bullets leave behind techniques used by ballistics experts and how ballistics evidence is used to solve crimes The Science of Small Arms Ballistics Alvah Buckmore, Jr.,2018-07-17 The science of small arms ballistics is seriously underdeveloped and underappreciated This unique and different book is a comprehensive study that fills a legitimate need for a work that covers the engineering and theory of small arms ballistics The author shares his extensive research on working out the science of small arm ballistics mathematically and explains his theories such as the field effect and the field effect over trajectory and time along with new theories on interior exterior and terminal ballistics Each equation describes a mathematical relationship such as transfer of energy and has an engineering application to help solve a design problem Some equations such as the calculation of bullet length with a given muzzle velocity and rate of twist represent manipulations of those equations Some other equations represent a set of mathematical instructions to resolve a technical problem such as the computation of trajectory or depth of penetration of living tissue in real time *Slings and Arrows* Mark Denny,2025-12-08 Using a unique blend of physics and history this book explores the dynamics of ancient weapons within a historical context The factors that influenced the development and usefulness of ancient weapons are manifold from the materials available at the time and the technology needed to assemble them to conditions in which they were used and their capabilities relative to other available weaponry This book takes the main categories of ancient weapons bows boomerangs spears slings and siege engines and presents a detailed analysis of their history and development answering questions about the physics materials science and engineering behind them as well as their uses in hunting and warfare and capabilities and drawbacks This book is suitable for a general audience with mathematical details included as appendices for readers who want to go deeper into the science History enthusiasts will find many fascinating details which are not available elsewhere whereas an archaeologist presented with an ancient sling or ballista will be able to estimate its performance Physics and engineering teachers will find ideas for enrichment activities on mechanics and aerodynamics *Ballistics* James Monroe Ingalls,United States Adjutant-General's Off,2025-05-22 Ballistics is a comprehensive treatise on the science of projectiles originally prepared by James Monroe Ingalls under the authority of the United States Adjutant General s Office This detailed work explores the principles governing the motion of projectiles offering insights into the mechanics of gunnery and ordnance Covering both theoretical

aspects and practical applications Ballistics provides a thorough understanding of the factors influencing projectile trajectory velocity and impact With its rigorous approach and meticulous attention to detail this book serves as an invaluable resource for military professionals engineers and anyone interested in the science behind artillery and firearms This edition preserves the original text ensuring that Ingalls TM s expertise continues to inform and educate future generations This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact and remains as true to the original work as possible Therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work As a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

The Science of Ballistics Osmond Lynch,2018-05-10 Ballistics deals with the mechanics of projectiles A primary aspect of study under this field are bullets It delves into the launch effects and behavior of bullets The designing of projectiles is also a significant aspect of this subject Ballistics has four sub fields namely terminal ballistics internal ballistics transitional ballistics and external ballistics This book attempts to understand the multiple branches that fall under the discipline of ballistics and how such concepts have practical applications It elucidates the modern aspects and innovative models around prospective developments with respect to ballistics This textbook is meant for students who are looking for an elaborate reference text on ballistics [Ballistic Formulas](#) Alex Edward Samuel Green,2013-02 **New Exact Small Arms Ballistics** Arthur J. Pejsa,2008 [The Story of the Gun](#) Paul J. Hazell,2021-05-24 This engaging and accessible book explains the scientific principles behind guns both ancient and modern It connects their evolution to advances in science as well as tracing the developments of projectiles and propellants It is not limited to small arms but also looks at the science of enormous guns such the Paris Gun for example and reviews the efforts to build a gun to launch projectiles into space Extremely fast guns are also covered such as two stage guns and rail guns Further the book provides insight into the science of terminal ballistics and wound ballistics as well as the challenging subject of gun control It is full of interesting facts for all who are curious about the science and history of guns as well as those for whom the gun is an accessory of their profession *Arrows Against Steel* Vic Hurley,2011 Originally published New York Mason Charter 1975

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