

Plastic Injection Molding For Firearm Manufacturing

Science and Engineering of Small Arms
 A Reference for Criminal, Private, and Military Investigators
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 Scientific American
 Firearms, the Law, and Forensic Ballistics
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ALEX MATHEWS

Science and Engineering of Small Arms Simon and Schuster

Deer hunting continues to be the number-one type of hunting in North America, and it's easy to understand why. Unlike other big-game animals that have declined in population due to man's development of wild lands, the whitetail has thrived. In fact, some of the largest bucks in the record books were taken in small woodlots near major cities. Hunting Record Book Bucks focuses on the advanced strategies of the top whitetail deer experts in North America. More than a dozen well-known trophy hunters contributed to this book, including Toby Bridges, Gary Clancy, Mark Drury, Peter Fiduccia, David Hale, Brad Harris, Harold Knight, Jim Shockey, and Bill Jordan, producer and star of the popular TV series, "Bill Jordan's Realtree Outdoors."

A Reference for Criminal, Private, and Military Investigators Skyhorse Publishing Inc.

PRINCIPLES OF ENGINEERING will help your students better understand the engineering concepts, mathematics, and scientific principles that form the foundation of the Project Lead the Way (PLTW) Principles Of Engineering course. Important concepts and processes are explained throughout using full-color photographs and illustrations. Appropriate for high school students, the mathematics covered includes algebra and trigonometry. The strong pedagogical features to aid comprehension include: Case Studies, boxed articles such as Fun Facts and Points of Interest, Your Turn activities, suggestions for Off-Road Exploration, connections to STEM concepts, Career Profiles, Design Briefs, and example pages from Engineers' Notebooks. Each chapter concludes with questions designed to test your students' knowledge of information presented in the chapter, along with a hands-on challenge or exercise that compliments the content and lends itself to exploration in the classroom. Key vocabulary terms that align with those contained in the PLTW POE course are highlighted throughout the book and emphasized in margin definitions. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Patents CRC Press

Guns have never been as prevalent in American culture as they are at this moment. Most contemporary conversations on guns either highlight the gun as just a tool used in mass killings or a right to be fiercely defended; eventually, whatever progress these debates foster in the public conversation tend to halt altogether once the old cliché, "guns don't kill people; people kill people" is trotted out. These gun control and gun violence discussions take the gun as passive object, ignoring the changing effects, and the very agency, that guns may deploy as politicized objects. What happens if we reset the conversation and admit that guns, and not the people behind them, kill people? The Lives of Guns offers a new and compelling way of thinking about the role of the gun in our social and political lives. In gathering ideas from law, science studies, sociology, and politics, each chapter turns the stale, standard gun conversations around by investigating the gun as an object with agency. In approaching guns from a technological perspective, down to the very science of how they are created and how they fire, The Lives of Guns takes up a number of questions, such as: How does the presence of these objects shape civic ideology? What does it mean to develop and care for gun and gun accessories technology? What do guns mean to those who build them versus those who fight for-and against-them? What could happen when drone technology meets gun technology? In bringing together fresh perspectives from leading lawyers, political scientists, and historians, The Lives of Guns promises to move the gun debate forward by opening up new ways of thinking about these issues and broadening the scope of these perennial debates.

Scientific American CRC Press

Written by the nation's foremost authority on forensic techniques as they relate to firearm injuries,

this bestseller provides critical information on gunshot wounds and the weapons and ammunition used to inflict them. Topics covered include the use of DNA and cytology to associate a bullet recovered at the scene to a deceased, bang guns, rubber and plastic bullets, muzzle brakes, and captive-bolts. The book also discusses the ballistics of bullets fired straight up into the air, stellate wounds due to distant gunshot wounds of the head, hangfires, slamfires, and wounds caused by assault rifles.

Firearms, the Law, and Forensic Ballistics CRC Press

An obturator has been designed for the 105mm Combustible Cartridge Case for the T252 Gun. The obturator, injection molded of linear polyethylene, has performed satisfactorily in gun firing tests at all required temperatures and chamber pressure extremes. A method of molding the obturator has been developed which reduces considerably the number of rejects, the occurrence of stress cracks, and the tendency of the obturator to warp. A quality control procedure in which the molding parameters (pressures, temperatures, and times) are continually monitored is described. (Author).

National Rifle Association Lulu.com

Provides an in-depth history of the NRA, revealing how this powerful organization influences legislation, and discusses the death threats NRA members have made against elected officials

Guide for occupational exploration ASM International

Written by the nation's foremost authority on gunshot wounds and forensic techniques as they relate to firearm injuries, Gunshot Wounds: Practical Aspects of Firearms, Ballistics, and Forensic Techniques, Second Edition provides critical information on gunshot wounds and the weapons and ammunition used to inflict them. The book describes practical aspects of ballistics, wound ballistics, and the classification of various wounds caused by handguns, bang guns, rifles, and shotguns. The final chapters explain autopsy technique and procedure and laboratory analysis relating to weapons and gunshot evidence.

Practical Aspects of Firearms, Ballistics, and Forensic Techniques, Third Edition David J. Gingery Publishing, LLC

This book focuses on developing small weapons, following the lifecycle of a firearm from design to manufacture. It demonstrates how modern technologies can be used at every stage of the process, such as design methodologies, CAD/CAE/CAM software, rapid prototyping, test benches, materials, heat and surface treatments, and manufacturing processes. Several case studies are presented to provide detailed considerations on developing specific topics. Small weapons are designed to be carried by one person; examples are pistols, revolvers, rifles, carbines, shotguns, and submachine guns. Beginning with a review of the history of weapons from ancient to modern times, this book builds on this by mapping out recent innovations and state-of-the-art technologies that have advanced small weapon design. Presenting a comprehensive guide to computer design tools used by weapon engineers, this book demonstrates the capabilities of modern software at all stages of the process, looking at the computer-aided design, engineering, and manufacturing. It also details the materials used to create small weapons, notably steels, engineering polymers, composites, and emerging materials. Manufacturing processes, both conventional and unconventional, are discussed, for example, casting, powder metallurgy, additive manufacturing, and heat and surface treatments. This book is essential reading to those in the field of weapons, such as designers, workers in research and development, engineering and design students, students at military colleges, sportsmen, hunters, and those interested in firearms. Dr. Jose Martin Herrera-Ramirez is a military engineer with experience in the field of weapon and ammunition development. After receiving his PhD in Materials Science and Engineering from the Paris School of Mines in France, he was the head of the Applied Research Center and Technology Development for the Mexican Military Industry (CIADTIM). He now researches the development of metallic alloys and composites at the Research Center for Advanced Materials (CIMAV) in Chihuahua, Mexico. Dr. Luis Adrian Zuñiga-Aviles is a

military engineer with wide experience in the field of weapon and ammunition development. He was head of the prototypes and simulation departments at the Applied Research Center and Technology Development for the Mexican Military Industry (CIADTIM) and head of engineering of the Production directorate. He received his PhD in Science and Technology on Mechatronics from the Center for Engineering and Industrial Development (CIDESI) in Queretaro, Mexico. He now researches the new product design and development for military application, machinery, robotics, and medical devices in the Faculty of Medicine at the Autonomous University of Mexico State (UAEMex) and the Faculty of Engineering at UAEMex as part of the Researchers for Mexico program CONACYT.

Dictionary of Occupational Titles Taylor & Francis

"Wildey's Here" is the true story of Wildey Moore's seven decades on the gun business. It charts how, without a college education, Moore became a great innovator, designing not only the first gas-operated pistol, the Survivor, but also the JAWS, Justice Pistol for the King of Jordan. The book further recounts, how, while, recovering from a stroke, international players including former CIA members attempted to seize Moore's then multi-national business, but his faith in God gave him the strength to hold on to fight and wim back the company he had built over forty years. While "Wildey's Here" is a story of survival, it's also the story of how a man came to trust in the Lord during the most trying time of his life, and charts the changes Wildey witnessed in the United States as the country forsook morality and embraced immorality, starting down the road to decline. Make America great again, no, MAKE AMERICA GOOD AGAIN.

Firearms Law and the Second Amendment Oxford University Press

Here is a book that brings the art of plastic injection molding to the home shop level. Working with plastics can be a fun and profitable hobby. If you have ever wanted to produce custom made plastic parts or just want to know how it's done then this book is for you. Included are complete step by step instructions on how to build a small inexpensive table top injection molding machine capable of injecting up to 1/2 ounce of plastic into a mold. Sources for plastic will be those things normally thrown away. Stuff like plastic milk jugs, soda pop bottles, plastic oil cans etc. You will learn the basic principles of injection molding and how to design and make your own molds. Begin by making a simple mold to test the machine. Then a mold for a plastic knob that will be used on the machine. Progress to a mold for a small plastic container with a snap lid. It won't be long before you will be creating new products of your own design. I'll even show you how to cast replacements for broken or missing plastic parts. Just think of the possibilities. And the finished items you make will turn out so nice and look so professional that it will be hard to believe you made them yourself. Construction is simple and straight forward, but it will require basic metal working knowledge and access to a metal lathe and a drill press along with other hand and power tools associated with metal working and machine work in general.

Firearms which Escape Detection at Airport Security Checkpoints Elsevier

"The ... illustrated introduction to firearms from an experienced instructor"--P. [4] of cover.

Ruger and His Guns Academic Press

Firearms, the Law, and Forensic Ballistics, Second Edition offers a comprehensive reference on the forensic science of firearms. It describes what happens when a weapon is fired in terms of internal, external, and terminal/ wound ballistics, and discusses the consequences for the forensic scientist both at the scene of the shooting and in the labor

hearing before the Readiness Subcommittee of the Committee on Armed Services, House of Representatives, One Hundredth Congress, second session, September 28, 1988 John Wiley & Sons

This book is the story of William B. Ruger's dedication to providing traditional yet innovative design and to manufacturing excellence. Products are sold at a reasonable price for a broad ranging clientele from the ordinary citizen to the president of the United States. This richly illustrated, beautifully presented work is the official history of William B. Ruger of Sturm, Ruger & Co., and of Ruger firearms, featuring more than 185 color and over 100 black and white illustrations. Skyhorse Publishing is proud to publish a broad range of books for hunters and firearms enthusiasts. We publish books about shotguns, rifles, handguns, target shooting, gun collecting, self-defense, archery, ammunition, knives, gunsmithing, gun repair, and wilderness survival. We publish books on deer hunting, big game hunting, small game hunting, wing shooting, turkey hunting, deer stands, duck blinds, bowhunting, wing shooting, hunting dogs, and more. While not every title we publish becomes a New York Times bestseller or a national bestseller, we are committed to publishing books on subjects that are sometimes overlooked by other publishers and to authors whose work might not otherwise find a home.

Field Guide to Molded Optics Issues relating to the plastic injection molding industryhearing before the Readiness Subcommittee of the Committee on Armed Services, House of Representatives, One Hundredth Congress, second session, September 28, 1988Firearm and Toolmark IdentificationThe Scientific Reliability of the Forensic Science Discipline Supplement to 3d ed. called Selected characteristics of occupations (physical demands, working

conditions, training time) issued by Bureau of Employment Security.

Official Gazette of the United States Patent and Trademark Office Elsevier

Key Terms and Concepts for Investigation provides students and practitioners with a compilation of concise, accurate articles on major topics pertaining to criminal, private, and military investigations. Each entry in this reference features a definition and then describes its function in investigation, including best practices and job characteristics. From financial crimes, digital forensics, and crime scene investigation to fraud, DNA, and workplace violence, this compilation helps students master investigation and offers seasoned investigators a resource to further their knowledge of recent developments in the field.

Firearms, the Law, and Forensic Ballistics CRC Press

This book initiates with the story of the evolution of firearms to enable the reader to appreciate the sequence of the development of firearms. It discusses different classes of small arms, their mechanics, internal and external ballistics. Further, it covers the design idea of barrels and actions, various operating principles and relevant discussion on ammunition and propellants. The principle of quality in the design of the small arms is also elaborated in the desired degree. The book brings out the relevance of modern manufacturing technologies like MIM and various surface treatments, and polymers for enhancement of product quality. To appreciate the sophistication of the architecture, the book presents the anatomical details of a few small arms of reputes. Provides complete understanding of overall small weapon systems Explores mechanics and physics of small arms Discusses proper design, quality control, and manufacturing process selections for a good weapon Covers common type of weapon failures and catastrophic failure Includes relevance of manufacturing processes The book is aimed at professionals and graduate students in Mechanical Design, Armament Design, Gun Design including personnel in the military, paramilitary, police, and all other armed forces and their maintenance crews.

Plastic Part Design for Injection Molding Cengage Learning

"Molding processes continue to innovate and push the boundaries of optical systems, not only for state-of-the-art, high-volume consumer products but also touching on almost every application where optics are used, from automotive headlights and medical endoscopes to thermal weapon sights for the warfighter. The most common optical molding technologies are injection molding of optical plastics and precision glass molding. This Field Guide primarily focuses on these two technologies but also covers the full spectrum of optical molding. It provides a convenient and concise source of knowledge on optical molding technologies and will be a valuable addition to a publication base that is rather limited"--

The Lives of Guns AuthorHouse

Firearm and Tool Mark Identification: The Scientific Reliability of the Forensic Science Discipline examines the scientific reliability of the firearm and tool mark identification discipline (FATM-ID). It answers two primary questions that are necessary to assess the reliability of FATM-ID, including 1) Do different tools produce different tool marks? and 2) Can a trained examiner reliably distinguish among them? Other books published on the topic have assumed these true and have simply discussed what is involved in the discipline. This book brings together the most recent studies, serving as a well-referenced, single resource that shows that FATM-ID is scientifically reliable. Intended primarily for firearm and tool mark examiners, this valuable resource serves as a primary requirement for the training of firearm and tool mark examiners. Finally, it will be a valuable resource for attorneys who are seeking to better understand the scientific reliability of FATM-ID. Written by a foremost expert in FATM-ID, the book provides a complete and scientific examination for anyone involved in firearm and tool mark identification. Provides a single resource that examines the scientific reliability of firearm and tool mark identification Covers the role of bias in the examination process and how it can impact the reliability of the final outcome Written by an expert in the field with over 25 years of firearm and tool mark experience

Firearm and Toolmark Identification CRC Press

The goal of the book is to assist the designer in the development of parts that are functional, reliable, manufacturable, and aesthetically pleasing. Since injection molding is the most widely used manufacturing process for the production of plastic parts, a full understanding of the integrated design process presented is essential to achieving economic and functional design goals. Features over 425 drawings and photographs. Contents: Introduction to Materials. Manufacturing Considerations for Injection Molded Parts. The Design Process and Material Selection. Structural Design Considerations. Prototyping and Experimental Stress Analysis. Assembly of Injection Molded Plastic Parts. Conversion Constants.

Plastics Obturator for 105mm Combustible Cartridge Case National PressBooks

Issues relating to the plastic injection molding industryhearing before the Readiness Subcommittee of the Committee on Armed Services, House of Representatives, One Hundredth Congress, second session, September 28, 1988Firearm and Toolmark IdentificationThe Scientific Reliability of the Forensic Science DisciplineAcademic Press