# Paper Makarov Blueprints

M. C. Roco and W.S. Bainbridge In the early decades of the
21st century, concentrated efforts can unify science based on
the unity of nature, thereby advancing the combination of
nanotechnology, biotechnology, information technology, and
new technologies based in cognitive science. With proper
attention to ethical issues and societal needs, converging in
human abilities, societal technologies could achieve a
tremendous improvement outcomes, the nation's productivity,
and the quality of life. This is a broad, cross cutting, emerging
and timely opportunity of interest to individuals, society and
humanity in the long term. The phrase "convergent
technologies" refers to the synergistic combination of four
major "NBIC" (nano-bio-info-cogno) provinces of science and
technology, each of which is currently progressing at a rapid
rate: (a) nanoscience and nanotechnology; (b) biotechnology
and biomedicine, including genetic engineering; (c)
information technology, including advanced computing and
communications; (d) cognitive science, including cognitive
neuroscience. Timely and Broad Opportunity. Convergence of
diverse technologies is based on material unity at the
nanoscale and on technology integration from that scale.
Dubbed by his fellow Futurists the "King of Time," Velimir
Khlebnikov (1885-1922) spent his entire brief life searching
for a new poetic language to express his convictions about
the rhythm of history, the correspondence between human
behavior and the "language of the stars." The result was a
vast body of poetry and prose that has been called hermetic,
incomprehensible, even deranged. Of all this tragic
generation of Russian poets (including Blok, Esenin, and
Mayakovsky), Khlebnikov has been perhaps the most praised
and the more censured. This first volume of the Collected

Works, an edition sponsored by the Dia Art Foundation, will do much to establish the counterimage of Khlebnikov as an honest, serious writer. The 117 letters published here for the first time in English reveal an ebullient, humane, impractical, but deliberate working artist. We read of the continuing involvement with his family throughout his vagabond life (pleas to his smartest sister, Vera, to break out of the mold, pleas to his scholarly father not to condemn and to send a warm overcoat); the naive pleasure he took in being applauded by other artists; his insistence that a young girl's simple verses be included in one of the typically outrageous Futurist publications of the time; his jealous fury at the appearance in Moscow of the Italian Futurist Marinetti; a first draft of his famous zoo poem ("O Garden of Animals!"); his seriocomic but ultimately shattering efforts to be released from army service; his inexhaustibly courageous confrontation with his own disease and excruciating poverty; and always his deadly earnest attempt to make sense of numbers, language, suffering, politics, and the exigencies of publication. The theoretical writings presented here are even more important than the letters to an understanding of Khlebnikov's creative output. In the scientific articles written before 1910, we discern foreshadowings of major patterns of later poetic work. In the pan-Slavic proclamations of 1908-1914, we find explicit connections between cultural roots and linguistic ramifications. In the semantic excursuses beginning in 1915, we can see Khlebnikov's experiments with consonants, nouns, and definitions spelled out in accessible, if arid, form. The essays of 1916-1922 take us into the future of Planet Earth, visions of universal order and accomplishment that no longer seem so farfetched but indeed resonate for modern readers.

A wide-ranging consideration of the nature and significance of Pushkin's African heritage Roughly in the year 1705, a young

African boy, acquired from the seraglio of the Turkish sultan, was transported to Russia as a gift to Peter the Great. This child, later known as Abram Petrovich Gannibal, was to become Peter's godson and to live to a ripe old age, having attained the rank of general and the status of Russian nobility. More important, he was to become the great-grandfather of Russia's greatest national poet, Alexander Pushkin. It is the contention of the editors of this book, borne out by the essays in the collection, that Pushkin's African ancestry has played the role of a "wild card" of sorts as a formative element in Russian cultural mythology; and that the ways in which Gannibal's legacy has been included in or excluded from Pushkin's biography over the last two hundred years can serve as a shifting marker of Russia's self-definition. The first single volume in English on this rich topic, Under the Sky of My Africa addresses the wide variety of interests implicated in the question of Pushkin's blackness-race studies, politics, American studies, music, mythopoetic criticism, mainstream Pushkin studies. In essays that are by turns biographical, iconographical, cultural, and sociological in focus, the authors-representing a broad range of disciplines and perspectives-take us from the complex attitudes toward race in Russia during Pushkin's era to the surge of racism in late Soviet and post-Soviet contemporary Russia. In sum, Under the Sky of My Africa provides a wealth of basic material on the subject as well as a series of provocative readings and interpretations that will influence future considerations of Pushkin and race in Russian culture. Continuing the proud tradition of Gunsmith Kinks®, Gunsmith Kinks® II, and Gunsmith Kinks® III, this newest member of the family - Gunsmith Kinks® 4 - presents 569 brand new gunsmith kinks to help you cure problems in the shop, to bring you new ideas for tools and time-saving fixtures for your gun work, to give you lots of solid and useful suggestions for

your business and shop -- and, of course, to bring together all the jokes that have appeared in the Gunsmiths Newsletter since Gunsmith Kinks® III came out back in 1993. As an added plus, weve added many brand new Gunsmith Kinks® and jokes that havent appeared in any Newsletter yet. All are shop proven and written by the people doing the work and, every Kink® has a credit line identifying the author.Included are lots of instructions -- 64 pages in fact -- that walk you through a variety of processes - from Color Case Hardening to applying BakeOn finishes. How-to articles reprinted from Brownells BenchTalk Newsletter and a whole chapter dedicated to advice on proven ways other folks have increased their sales and, therefore, their profits. That same chapter has advice and counsel on subjects ranging from customer service, to making a buck and just about every other aspect of the business. 133 pages feature 167 job-specific Gunsmith Kinks® for handguns, rifles, and shotguns.To make finding all this tremendous new information easy -- for info is of no use unless you can find it -- the new Gunsmith Kinks® 4 is cross-indexed with ALL THREE previous volumes Gunsmith Kinks® , Gunsmith Kinks® II, and Gunsmith Kinks® III. If you look up a subject in Gunsmith Kinks® 4, right beside the entry you can see if there is more information on the same subject in one of the other three volumes, and which page to find it on.The sum total of know-how collected here is truly mind-boggling. You, the reader, get to tap into the job files of the worlds best gunsmiths and take advantage of the hours theyve spent figuring out how to fix the problem thats sitting on your bench! A fully revised second edition of the best guide to high-frequency trading High-frequency trading is a difficult, but profitable, endeavor that can generate stable profits in various market conditions. But solid footing in both the theory and practice of this discipline are essential to success.

Whether you're an institutional investor seeking a better understanding of high-frequency operations or an individual investor looking for a new way to trade, this book has what you need to make the most of your time in today's dynamic markets. Building on the success of the original edition, the Second Edition of High-Frequency Trading incorporates the latest research and questions that have come to light since the publication of the first edition. It skillfully covers everything from new portfolio management techniques for high-frequency trading and the latest technological developments enabling HFT to updated risk management strategies and how to safeguard information and order flow in both dark and light markets. Includes numerous quantitative trading strategies and tools for building a high-frequency trading system Address the most essential aspects of high-frequency trading, from formulation of ideas to performance evaluation The book also includes a companion Website where selected sample trading strategies can be downloaded and tested Written by respected industry expert Irene Aldridge While interest in high-frequency trading continues to grow, little has been published to help investors understand and implement this approach—until now. This book has everything you need to gain a firm grip on how high-frequency trading works and what it takes to apply it to your everyday trading endeavors. An extensive library of firearms for the d20 Modern roleplaying game.
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

This book focuses on novel design and systems engineering approaches, including theories and best practices, for promoting a better integration of people and engineering systems. It covers a range of innovative topics related to: development of human-centered systems; interface design and human-computer interaction; usability and user experience; innovative materials in design and manufacturing; biomechanics and physical rehabilitation, as well as safety engineering and systems complexity. The book, which gathers selected papers presented at the 3rd International Conference on Human Systems Engineering and Design: Future Trends and Applications (IHSED 2020), held on September 22-24, 2020, at Juraj Dobrila University of Pula, in Pula, Croatia, provides researchers and practitioners with a snapshot of the state-of-the-art and current challenges in the field of human systems engineering and design.

Detailed illustrations, clear photos, and thorough text show you how to make a sharp, reliable .22 machine pistol from scratch. Covers everything from choosing the right tools and materials to building the gun's major components to final finishing and bluing. For academic study only.

The updated second edition of Handbook of Firearms and Ballistics includes recent developed analytical techniques and methodologies with a more comprehensive glossary, additional material, and new case studies. With a new chapter on the determination of bullet caliber via x-ray photography, this edition includes revised material on muzzle attachments, proof marks,

non-toxic bullets, and gunshot residues. Essential reading for forensic scientists, firearms examiners, defense and prosecution practitioners, the judiciary, and police force, this book is also a helpful reference guide for undergraduate and graduate forensic science students.

Anyone can become an expert with help from these 975 exploded and isometric long gun drawings. Professionals and hobbyists appreciate attention to both modern and collectible guns. Directory matches you with outlets for services and supplies.

YOUR GO-TO GUIDE FOR GUNS, AMMO & GEAR Get the complete low-down on what's new in the shooting industry with Guns Illustrated 2011. Stuffed with photos and behind-the-scenes peeks at today's hottest guns and gear, Guns Illustrated 2011 is an economical guide to the latest and greatest guns, shooting supplies and accessories. Before you spend another dollar on guns or gear, arm yourself with the facts-with Guns Illustrated 2011! &break;IT'S ALL HERE!&break;&break; Reports from the Field&break; Handguns&break; Rifles&break; Shotguns&break; Ammo&break; Reloading Supplies&break; Optics&break; Airguns&break; Black Powder&break; Informative Articles on Special-Interest Guns &break; Ballistics Tables&break; Manufacturers Directory&break; And more

Considers the Arctic to shed light on generic questions pertaining to international cooperation as well as evaluating the prospects for international cooperation in the Arctic.

Discover solutions to all your Tkinter and Python GUI development problems Key Features Integrate efficient

Python GUI programming techniques with Tkinter Efficiently implement advanced MVC architectures in your Python GUI apps Solve all your problems related to Tkinter and Python GUI development Book Description As one of the more versatile programming languages, Python is well-known for its batteries-included philosophy, which includes a rich set of modules in its standard library; Tkinter is the library included for building desktop applications. Due to this, Tkinter is a common choice for rapid GUI development, and more complex applications can benefit from the full capabilities of this library. This book covers all of your Tkinter and Python GUI development problems and solutions. Tkinter GUI Application Development Cookbook starts with an overview of Tkinter classes and at the same time provides recipes for basic topics, such as layout patterns and event handling. Next, we cover how to develop common GUI patterns, such as entering and saving data, navigating through menus and dialogs, and performing long-running actions in the background.You can then make your apps leverage network resources effectively and perform graphical operations on a canvas and related tasks such as detecting collisions between items. Finally, this book covers using themed widgets, an extension of Tk widgets that have a more native look and feel. Finally, this book covers using the canvas and themed widgets. By the end of the book, you will have an in-depth knowledge of Tkinter classes, and will know how to use them to build efficient and rich GUI applications. What you will learn Add widgets and handle user events Lay out widgets within windows using frames and the different geometry managers Configure widgets so that they have a customized appearance and behavior Improve the navigation of your apps with menus and dialogs Apply object-oriented programming techniques in Tkinter applications Use threads to achieve responsiveness and update the GUI Explore the

capabilities of the canvas widget and the types of items that can be added to it Extend Tkinter applications with the TTK (themed Tkinter) module Who this book is for This book is for Python developers who are familiar with the basics of the language syntax, data structures, and OOP. You do not need previous experience with Tkinter or other GUI development libraries.

This volume represents the most comprehensive collection ever produced of empirical research on Holocaust education around the world. It comes at a critical time, as the world observes the 70th anniversary of the liberation of Auschwitz. We are now at a turning point, as the generations that witnessed and survived the Shoah are slowly passing on. Governments are charged with ensuring that this defining event of the 20th century takes its rightful place in the schooling and the historical consciousness of their peoples. The policies and practices of Holocaust education around the world are as diverse as the countries that grapple with its history and its meaning. Educators around the globe struggle to reconcile national histories and memories with the international realities of the Holocaust and its implications for the present. These efforts take place at a time when scholarship about the Holocaust itself has made great strides. In this book, these issues are framed by some of the leading voices in the field, including Elie Wiesel and Yehuda Bauer, and then explored by many distinguished scholars who represent a wide range of expertise. Holocaust education is of such significance, so rich in meaning, so powerful in content, and so diverse in practice that the need for extensive, high-quality empirical research is critical. Th is book provides exactly that.

While researching Russia's historical efforts to protect nature, Douglas Weiner unearthed unexpected findings: a trail of documents that raised fundamental questions about the

Soviet political system. These surprising documents attested to the unlikely survival of a critical-minded, scientist-led movement through the Stalin years and beyond. It appeared that, within scientific societies, alternative visions of land use, resrouce exploitation, habitat protection, and development were sustained and even publicly advocated. In sharp contrast to known Soviet practices, these scientific societies prided themselves on their traditions of free elections, foreign contacts, and a pre-revolutionary heritage. Weiner portrays nature protection activists not as do-or-die resisters to the system, nor as inoffensive do-gooders. Rather, they took advantage of an unpoliced realm of speech and activity and of the patronage by middle-level Soviet officials to struggle for a softer path to development. In the process, they defended independent social and professional identities in the face of a system that sought to impose official models of behavior, ethics, and identity for all. Written in a lively style, this absorbing story tells for the first time how organized participation in nature protection provided an arena for affirming and perpetuating self-generated social identities in the USSR and preserving a counterculture whose legacy survives today.

This book discusses the risks of information concealment in the context of major natural or industrial disasters – offering detailed descriptions and analyses of some 25 historical cases (Three Mile Island nuclear accident, Bhopal disaster, Challenger Space Shuttle explosion, Chernobyl nuclear disaster, Deepwater Horizon oil spill, Fukushima-Daiichi nuclear disaster, Enron's bankruptcy, Subprime mortgage crisis, Worldwide Spanish flu and SARS outbreaks, etc.) and applying these insights to selected on-going cases where such information concealment is suspected. Some successful examples of preventive anti-concealment practice are also presented. In the book, the term 'concealment' is used to

represent the two distinct behaviors uncovered in the investigations: (i) facts and information about an organization and its functioning being hidden from those that need them – here the concealment can be due to various factors, such as complexity and miscommunication, to name but two – and (ii) the conscious and deliberate action of keeping important information secret or misrepresenting it. This second meaning makes up a surprisingly important part of the evidence presented. Accordingly, emphasis has been put on this second aspect and the approach is more pragmatic than academic, remaining focused on evidence-based practical and useful factors. It raises awareness and provides valuable lessons for decision- makers, risk specialists and responsible citizens alike. This work is also intended as a fact-based reference work for future academic and scholarly investigations on the roots of the problem, in particular regarding any psychological or sociological modeling of human fallibility.

NEW YORK TIMES BESTSELLER • The first definitive history of the Mossad, Shin Bet, and the IDF's targeted killing programs, hailed by The New York Times as "an exceptional work, a humane book about an incendiary subject." WINNER OF THE NATIONAL JEWISH BOOK AWARD IN HISTORY NAMED ONE OF THE TEN BEST BOOKS OF THE YEAR BY JENNIFER SZALAI, THE NEW YORK TIMES NAMED ONE OF THE BEST BOOKS OF THE YEAR BY The Economist • The New York Times Book Review • BBC History Magazine • Mother Jones • Kirkus Reviews The Talmud says: "If someone comes to kill you, rise up and kill him first." This instinct to take every measure, even the most aggressive, to defend the Jewish people is hardwired into Israel's DNA. From the very beginning of its statehood in 1948, protecting the nation from harm has been the responsibility of its intelligence community and armed

services, and there is one weapon in their vast arsenal that they have relied upon to thwart the most serious threats: Targeted assassinations have been used countless times, on enemies large and small, sometimes in response to attacks against the Israeli people and sometimes preemptively. In this page-turning, eye-opening book, journalist and military analyst Ronen Bergman—praised by David Remnick as "arguably [Israel's] best investigative reporter"—offers a riveting inside account of the targeted killing programs: their successes, their failures, and the moral and political price exacted on the men and women who approved and carried out the missions. Bergman has gained the exceedingly rare cooperation of many current and former members of the Israeli government, including Prime Ministers Shimon Peres, Ehud Barak, Ariel Sharon, and Benjamin Netanyahu, as well as high-level figures in the country's military and intelligence services: the IDF (Israel Defense Forces), the Mossad (the world's most feared intelligence agency), Caesarea (a "Mossad within the Mossad" that carries out attacks on the highest-value targets), and the Shin Bet (an internal security service that implemented the largest targeted assassination campaign ever, in order to stop what had once appeared to be unstoppable: suicide terrorism). Including never-before-reported, behind-the-curtain accounts of key operations, and based on hundreds of on-the-record interviews and thousands of files to which Bergman has gotten exclusive access over his decades of reporting, Rise and Kill First brings us deep into the heart of Israel's most secret activities. Bergman traces, from statehood to the present, the gripping events and thorny ethical questions underlying Israel's targeted killing campaign, which has shaped the Israeli nation, the Middle East, and the entire world. "A remarkable feat of fearless and responsible reporting . . . important, timely, and informative."—John le Carré

This absorbing book describes the long development of the Soviet space shuttle system, its infrastructure and the space agency's plans to follow up the first historic unmanned mission. The book includes comparisons with the American shuttle system and offers accounts of the Soviet test pilots chosen for training to fly the system, and the operational, political and engineering problems that finally sealed the fate of Buran and ultimately of NASA's Shuttle fleet.

Transnational Death brings together eleven cutting-edge articles from the emerging field of transnational death studies. The collection highlights European, Asian, North American, and Middle Eastern perspectives, and reflects on people's changing experiences with death in the context of migration over time. The collection begins with a thematic assessment of transnational death studies, and then examines case studies, divided into Family, Community, and Commemoration sections. Together, the chapters provide new insights on issues including identity and belonging, community reciprocity, transnational communication, and spaces of mourning and commemoration. The collection is edited by Dr. Samira Saramo (University of Turku), Dr. Eerika Koskinen-Koivisto (University of Jyväskylä), and Professor of Ethnology Hanna Snellman (University of Helsinki).

This illustrated book that includes tables, charts, and maps primarily discusses the role of USAREUR (US Army Europe) in rearming and training the new German Army which was perhaps the Army's single greatest contribution toward maintaining security in Western

Europe. Likewise, the relationship between American soldiers and their French and West German hosts evolved over time and is a critical element in telling the story of the US Army in Europe.

This book comprises high-quality, refereed research papers presented at the 2019 International Symposium on Computer Science, Digital Economy and Intelligent Systems (CSDEIS2019): The symposium, held in Moscow, Russia, on 4–6 October 2019, was organized jointly by Moscow State Technical University and the International Research Association of Modern Education and Computer Science. The book discusses the state of the art in areas such as computer science and its technological applications; intelligent systems and intellectual approaches; and digital economics and methodological approaches. It is an excellent reference resource for researchers, undergraduate and graduate students, engineers, and management practitioners interested in computer science and its applications in engineering and management.

"The chapters included in this volume all come from an international conference on the Russian military that aimed to examine the Russian military establishment as much as possible, including its domestic developments, the ability of Russia's economy, and in particular, its science and technology sectors. Given the ongoing aggressiveness of the Russian military, this effort to present an all-encompassing look at it is not only essential reading but also quite unique in the existing literature" -- Publisher's web site.

This book describes the evolving CBRN risk landscape

and highlights advances in the "core" CBRN technologies, including when combined with (improvised) explosive devices (CBRNe threats). It analyses how associated technologies create new safety and security risks, challenging certain assumptions that underlie current control regimes. The book also shows how technologies can be enablers for more effective strategies to mitigate these risks. 21st-century safety and security risks emanating from chemical, biological, radiological and nuclear materials – whether resulting from natural events, accidents or malevolent use - are increasingly shaped by technologies that enable their development, production or use in ways that differ from the past. Artificial intelligence, the use of cyberspace, the revolution in the life sciences, new manufacturing methods, new platforms and equipment for agent delivery, hypersonic weapons systems, information tools utilised in hybrid warfare – these and other technologies are reshaping the global security environment and CBRN landscape. They are leading to a growing potential for highly targeted violence, and they can lead to greater instability and vulnerability worldwide. At the same time, technology offers solutions to manage CBRN risks. Examples are faster detection, more accurate characterisation of the nature and origin of CBRN agents, new forensic investigation methods, or new medical treatments for victims of CBRN incidents. New educational concepts help to foster a culture of responsibility in science and technology and strengthen governance. New training methods help develop practical skills to manage CBRN risks more effectively.

The book concludes that there is a growing need for a holistic framework towards CBRN risk mitigation. Traditional arms control mechanisms such as global, regional or bilateral treaties and export controls are still needed, as they provide a necessary legal and institutional framework. But laws and technology denial alone will not suffice, and institutional mechanisms can at times be weak. Given the pace of technological progress and the diffusion of critical knowledge, tools and materials, policymakers must accept that CBRN risks cannot be eliminated altogether. Instead, society has to learn to manage these risks and develop resilience against them. This requires a "softer", broadly based multi-stakeholder approach involving governments, industry, the research and development communities, educators, and civil society. Furthermore, educating policymakers that cutting-edge technologies may seriously affect global strategic stability could create incentives for developing a more creative and contemporary arms control strategy that fosters cooperation rather than incremental polarisation. "This volume has three parts: the first focuses on cyberspace itself; the second on some of the major forms of malevolence or threats that have become one of its defining characteristics; and the third on possible responses to these threats. One of the most significant features of cyberspace, however, is that it is becoming a risky place for the entire spectrum of users: nation-states, nongovernmental and transnational organizations, commercial enterprises, and individuals. Yet it is a space of opportunities -- for benevolent,

neutral, and malevolent actors. Moreover, the authors identify and assess the challenges and threats to security that can arise in cyberspace because of its unique nature. In the final section, the authors discuss a variety of responses, with some suggesting that the most favored options being pursued by the United States are poorly conceived and ill-suited to the tasks at hand"--Publisher's web site.

In 1958 construction began on Akademgorodok, a scientific utopian community modeled after Francis Bacon's vision of a "New Atlantis." The city, carved out of a Siberian forest 2,500 miles east of Moscow, was formed by Soviet scientists with Khrushchev's full support. They believed that their rational science, liberated from ideological and economic constraints, would help their country surpass the West in all fields. In a lively history of this city, a symbol of de-Stalinization, Paul Josephson offers the most complete analysis available of the reasons behind the successes and failures of Soviet science--from advances in nuclear physics to politically induced setbacks in research on recombinant DNA. Josephson presents case studies of high energy physics, genetics, computer science, environmentalism, and social sciences. He reveals that persistent ideological interference by the Communist Party, financial uncertainties, and pressures to do big science endemic in the USSR contributed to the failure of Akademgorodok to live up to its promise. Still, a kind of openness reigned that presaged the glasnost of Gorbachev's administration decades later. The openness was rooted in the geographical and psychological

distance from Moscow and in the informal culture of exchange intended to foster the creative impulse. Akademgorodok is still an important research center, having exposed physics, biology, sociology, economics, and computer science to new investigations, distinct in pace and scope from those performed elsewhere in the Soviet scientific establishment.

Much has been written in the West on the history of the Soviet space program but few Westerners have read direct first-hand accounts of the men and women who were behind the many Russian accomplishments in exploring space. The memoirs of Academician Boris Chertok, translated from the original Russian, fills that gap. Chertok began his career as an electrician in 1930 at an aviation factory near Moscow. Twenty-seven years later, he became deputy to the founding figure of the Soviet space program, the mysterious "Chief Designer" Sergey Korolev. Chertok's sixty-year-long career and the many successes and failures of the Soviet space program constitute the core of his memoirs, Rockets and People. In these writings, spread over four volumes, Academician Chertok not only describes and remembers, but also elicits and extracts profound insights from an epic story about a society's quest to explore the cosmos. In Volume 1, Chertok describes his early years as an engineer and ends with the mission to Germany after the end of World War II when the Soviets captured Nazi missile technology and expertise. Volume 2 takes up the story with the development of the world's first intercontinental ballistic missile (ICBM) and ends with the launch of Sputnik and the early Moon probes. In

Volume 3, Chertok recollects the great successes of the Soviet space program in the 1960s including the launch of the world's first space voyager Yuriy Gagarin as well as many events connected with the Cold War. Finally, in Volume 4, Chertok meditates at length on the massive Soviet lunar project designed to beat the Americans to the Moon in the 1960s, ending with his remembrances of the Energiya-Buran project. NASA SP-2005-4110. As Star Trek celebrates its 50th anniversary, the futuristic tools of Kirk, Spock, Scott, and McCoy continue to come to life. This book merges Star Trek scientific lore—how the science of the time informed the implementation of technology in the series—and the science as it is playing out today. Scientists and engineers have made and continue to develop replicators, teletransporters, tractor beams, and vision restoring visors. This book combines the vision of 1966 science fiction with the latest research in physics, biotechnology, and engineering. The urbanization of warfare has necessitated the kind of precision targeting that only small arms can deliver. Weapons not often seen on the battlefield can prove useful, even indispensible, in an urban setting. This expert reference guide examines in detail the most successful small arms in use and how changes in warfare have affected how those weapons are used and have transformed the small arms industry. Professional soldiers, law enforcement officers and students and researchers of small arms will gain a working knowledge of the most common and successful urban combat weapons (including some currently in development).

At a time when crime scene television shows are all the rage amongst the civilian population, knowledge of firearm forensics is of paramount importance to crime scene analysts, police detectives, and attorneys for both the prosecution and the defense. Cartridges and Firearm Identification brings together a unique, multidisciplined approach to quest